

# EXHIBIT 4

Salil Khandwala, M.D.

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UNITED STATES DISTRICT COURT  
SOUTHERN DISTRICT OF WEST VIRGINIA AT CHARLESTON

Master File No. 2:12-MD-02327

IN RE: ETHICON, INC., PELVIC

REPAIR SYSTEM PRODUCTS

MDL 2327

LIABILITY LITIGATION

JOSEPH R. GOODWIN

U.S. DISTRICT JUDGE

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Nancy Smallwood, et al. v. Ethicon, Inc., et al.

Civil Action No. 2:12-cv-01662

Alvette Chase v. Ethicon, Inc., et al.

Civil Action No. 2:12-cv-01533

Margaret Schomer v. Ethicon, Inc., et al.

Civil Action No. 2:12-cv-01497

Patricia Lindberg, et al. v. Ethicon, Inc., et al.

Civil Action No. 2:12-cv-01637

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THE DEPOSITION OF SALIL KHANDWALA, M.D.

JULY 8, 2016

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1           The deposition of SALIL KHANDWALA, M.D.,  
2           Taken at 22731 Newman Street, Suite 200,  
3           Dearborn, Michigan,  
4           Commencing at 9:04 a.m.,  
5           Friday, July 8, 2016,  
6           Before Cheryl McDowell, CSR-2662, RPR.

7

8           APPEARANCES:

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17

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1 KHANDWALA EXHIBIT NO. 8

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Attachment 4, Gynecare TVT Obturator System

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1 Dearborn, Michigan

2 Friday, July 8, 2016

3 About 9:04 a.m.

4 - - -

5 SALIL KHANDWALA, M.D.,

6 having first been duly sworn, was examined and testified  
7 on his oath as follows:

8 EXAMINATION BY MS. FLAHERTY:

9 Q. Well, good morning, Doctor. My name is Yvonne  
10 Flaherty. We met very briefly before we started the  
11 deposition this morning. I'm a lawyer from  
12 Minneapolis, and I represent plaintiffs in the  
13 litigation against Johnson and Johnson and Ethicon,  
14 and I have with me today one of the lawyers from my  
15 office, Elizabeth Peterson, as well.

16 We have opened up the telephone lines, but  
17 at this point it does not sound like anybody is on the  
18 telephone line, and if somebody does join, we'll ask  
19 them to identify themselves as well.

20 It is my understanding that you have been  
21 deposed before, and the last deposition at least  
22 related to the Ethicon pelvic mesh products was about  
23 two weeks ago on June 24th.

24 Does that sound about correct?

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1 A. That's correct.

2 Q. Okay. And at that time it was a deposition focused on  
3 certain individual or case-specific matters, is that  
4 your understanding?

5 A. That is correct.

6 Q. Okay. And when I state Ethicon pelvic mesh products,  
7 do you understand that to mean products such as the  
8 TVT, TVT-O, and TVT-Secur?

9 A. Yes.

10 Q. As well as probably some other products that Ethicon  
11 has.

12 Our focus today will be on TVT, TVT-Secur,  
13 and TVT-O.

14 I'm going to hand to you what the court  
15 reporter will mark as Exhibit No. 1.

16 (Khandwala Exhibit No. 1 marked and  
17 attached.)

18 BY MS. FLAHERTY:

19 Q. Have you seen this document before?

20 A. Yes, I have.

21 Q. Okay. And what is your understanding of what this  
22 document is?

23 A. It is basically what we'll be discussing today and  
24 going over the information about the cases, the case

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1 specific that we did last time and the general  
2 opinions on the three devices that you mentioned.

3 Q. Okay. And if you turn to page eight of the deposition  
4 notice, look at the top of the page, it says  
5 Schedule A.

6 Do you see that?

7 A. Yes.

8 Q. And this is a list of items that have been requested  
9 from you.

10 Have you brought any materials with you  
11 today?

12 A. Yes, I have.

13 Q. Okay. And what do you have?

14 A. I have the documents and my Reliance List is on this  
15 flash drive, my CV is here. The invoices are here. I  
16 do not have any photographs.

17 MR. WALKER: And for the record, we have  
18 numerous binders that are outside on a table that are  
19 in response to Schedule A that I directed counsel to  
20 for inspection if she so desires.

21 MS. FLAHERTY: And just to clarify, the  
22 hard copy documents that are available in binders,  
23 it's my understanding that those are hard copies of  
24 items that are printed from the Reliance List?



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1 MR. WALKER: Correct.

2 MS. FLAHERTY: Okay. And not additional

3 items --

4 MR. WALKER: Correct.

5 MS. FLAHERTY: -- specific to Schedule A.

6 MR. WALKER: Correct.

7 MS. FLAHERTY: Okay.

8 MR. WALKER: And the hard copies are not  
9 all inclusive of his reliance materials. It's just a  
10 portion of them that we actually printed. All of them  
11 are electronically contained on the flash drive.

12 BY MS. FLAHERTY:

13 Q. Okay. So there's just a couple additional items on  
14 Schedule A that I want to confirm before we move  
15 forward. If you go on to page nine, item number ten  
16 talks about consulting agreements, time sheets,  
17 billing records, invoices, and it goes on.

18 I know that you do have an invoice that you  
19 brought with you today which I think we will mark as  
20 Exhibit No. 2.

21 (Khandwala Exhibit No. 2 marked and  
22 attached.)

23 BY MS. FLAHERTY:

24 Q. And the court reporter has handed to you what's been

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1 marked as Exhibit No. 2.

2 Just so the record is clear, is this a copy  
3 of the invoice that you brought with you today?

4 A. It is.

5 Q. Do you have other time records or notes or billing  
6 records that reflect the time that is set forth on  
7 this invoice?

8 A. Yes, I do.

9 Q. Okay. And how are those records maintained?

10 A. Electronically. Whenever I reviewed a document,  
11 whether it was a patient-specific or for general  
12 reporting, I would just log the start time and the end  
13 time, and then I compiled it and created this summary  
14 report.

15 Q. Okay. And I apologize if you said this already. You  
16 said it's electronic?

17 A. Yes.

18 Q. Is it in an Excel spreadsheet or some other format?

19 A. It's in just, it's in a Word, Word spreadsheet.

20 Q. Okay. Do you have any other notes or information on  
21 that document other than start and end times of your  
22 task?

23 A. No.

24 Q. And is that a separate document for each case or is it

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1 a larger document for all of your expert work with  
2 respect to the Ethicon litigation?

3 A. I usually do it per wave. So, for example, this is  
4 Wave II, so I just started it, when it started, when I  
5 finished a certain task, what that task was, and I  
6 just created a little bit of a Word document that will  
7 help me eventually compile this particular list.

8 Q. Okay. Does -- are you able to print a copy of that  
9 document?

10 A. Yes.

11 Q. Okay. We'll follow up with counsel perhaps during the  
12 break to get a copy of that.

13 And this invoice, Exhibit No. 2, is dated  
14 July 5th which is just a few days ago.

15 Have you put or billed any time since  
16 July 5th with respect to the Wave II cases?

17 A. No, I haven't.

18 Q. Is there any time that's been billed that's not  
19 reflected on the invoice?

20 A. No, not for Wave II.

21 MR. WALKER: For Wave II.

22 MS. FLAHERTY: Correct.

23 BY MS. FLAHERTY:

24 Q. And have you started to do work with respect to

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1 Wave III cases?

2 A. Not yet.

3 Q. Okay. So you have not billed any time with respect to  
4 Wave III cases?

5 A. That is correct.

6 Q. Is it fair to say you probably have some ongoing time  
7 that you're billing with respect to Wave I cases?

8 A. Could you please repeat that?

9 Q. Sure. With respect to -- are you doing any ongoing  
10 work with respect to Wave I?

11 A. Not as of now.

12 Q. Okay. Do you anticipate any in the future?

13 A. I may be amending my general report on the vaginal  
14 mesh, but that is not certain.

15 Q. Okay. So going through Exhibit No. 2, the third line  
16 down says invoice regarding and that is it states  
17 general report.

18 And that would be your general liability  
19 reports for TVT and TVT-O which is one report and  
20 TVT-S?

21 A. That is correct.

22 Q. And then your case-specific review?

23 A. Yes.

24 Q. And that would be for the files of the individual

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1 plaintiffs that you reviewed in Wave II?

2 A. That's correct.

3 Q. And then independent medical examinations.

4 How many independent medical examinations  
5 have you conducted in Wave II?

6 A. Two.

7 Q. And which plaintiffs were those for?

8 A. Mrs. Smallwood and Chase.

9 Q. And then time for the last item on that list is  
10 depositions, correct?

11 A. I'm sorry. Yes.

12 Q. And that would be your time for the depositions a  
13 couple weeks ago, today, and I believe there was one,  
14 a third day scheduled for next week.

15 A. I'm sorry. That does not include -- today is not  
16 included in this.

17 Q. Okay.

18 A. This is just the last time that I did for the two  
19 cases.

20 Q. Okay. Would it also include your time to prepare for  
21 the depositions?

22 A. No.

23 Q. Okay. Does it include your time to prepare for the  
24 depositions that took place on June 24th?

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1 A. No, just the actual depositions.

2 Q. Okay. Do you bill separately for your time to prepare  
3 for depositions?

4 A. It's part of the general report or the case-specific  
5 review, same, same rates.

6 Q. Okay. So would the time then be combined with that --  
7 strike that.

8 Is your time preparing for depositions  
9 included in this invoice, at least with respect to the  
10 depositions that already happened?

11 A. Yes.

12 Q. Okay. And it indicates that you have spent -- I  
13 haven't totaled up the number of hours, but you have  
14 broken down your hours based on the general report of  
15 seventy-two hours, is that correct?

16 A. That is correct.

17 Q. And that's for both general reports, total for the  
18 general reports?

19 A. Yes, three.

20 Q. And just to clarify, when you say three reports, three  
21 general reports, which three general reports are you  
22 referring to?

23 A. Two reports of three devices, the TVT, TVT-0 being one  
24 report and the second is the TVT-Secur.

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1 Q. Okay. I just wanted to make sure we were talking  
2 about two reports.

3 A. Yes.

4 Q. Three devices but two reports.

5 Do you know how that time is split out  
6 between the TVT-Secur and the TVT, TVT-O report?

7 A. I'm not sure if it is in my breakup sheet. It could  
8 possibly be.

9 Q. Okay.

10 A. But I'm not certain.

11 Q. Okay. Do you have a general recollection?

12 A. It probably would be about, if I were to guess, it  
13 will be sixty percent for the Secur and forty percent  
14 for the TVT, TVT-O.

15 Q. Okay. And case-specific reviews, that looks like it  
16 was about ninety-three hours.

17 And that would be with respect to your  
18 preparation in case-specific reports and review of  
19 medical records for those reports?

20 A. Medical records, the depositions, and preparation on  
21 the case, write-up of the case and things like that.

22 Q. Okay. And then it says review with Mr. Walker on June  
23 23rd, five hours.

24 That I presume was preparation for your

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1 deposition on June 24th?

2 A. That is correct.

3 Q. And the IME and report, eight hours.

4 I presume that is the IME and reports for  
5 Miss Smallwood and Miss Chase?

6 A. That is right.

7 Q. Okay. And it next says reviews with case-specific  
8 attorney and independent pre-deposition review.

9 What was that?

10 A. So that is each of these four cases that I did had a  
11 case-specific attorney assigned to them. So once I  
12 did my report and I reviewed it, I wanted to go back  
13 and forth with the attorney to see what were the  
14 points of discussion that could come across.

15 Q. Okay. And so that pre-deposition review would be in  
16 addition to any time you spent with Mr. Walker on June  
17 23rd?

18 A. That is correct.

19 Q. And then you have the case-specific depositions, five  
20 hours on June 24th?

21 A. That is right.

22 Q. And so the total for the Wave II work it looks like up  
23 through approximately June 24th is ninety-five  
24 thousand three hundred dollars?



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1 A. Yes.

2 Q. Do you know when you plan to prepare your next invoice  
3 for Wave II cases?

4 A. I probably will wait until next week to finish my  
5 case-specific reviews, and once those depositions are  
6 done, then probably I will do that.

7 MR. WALKER: I'm sorry. Was your question  
8 about Wave II?

9 MS. FLAHERTY: Yes.

10 MR. WALKER: I thought your answer was  
11 about Wave III.

12 THE WITNESS: No, Wave II.

13 MR. WALKER: Okay.

14 MS. FLAHERTY: There are more case-specific  
15 Wave II depositions next week.

16 MR. WALKER: Thank you. I forgot we have  
17 one left.

18 BY MS. FLAHERTY:

19 Q. Okay. And are the rates that you have charged and set  
20 forth in this invoice similar to the rates charged for  
21 your Wave I work?

22 A. Yes.

23 Q. Okay. And do you anticipate that these rates will be  
24 the same for your Wave III work?

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1 A. Yes.

2 Q. Do you know how much you have billed thus far with  
3 respect to Wave I?

4 A. I don't recall exactly what my number was, but I'm  
5 sure it's somewhere in the file.

6 Q. Okay. Do you have an estimate?

7 A. Something thirty-five, forty thousand.

8 Q. So about a third of what you have billed so far for  
9 Wave II?

10 A. It's possible.

11 Q. You have also brought with you a thumb drive, is that  
12 the correct term, flash drive, thumb drive?

13 A. Yes.

14 MS. FLAHERTY: Counsel, is that one that we  
15 can mark as an exhibit or --

16 MR. WALKER: Yes.

17 MS. FLAHERTY: Okay.

18 MR. WALKER: It's yours to take, yeah. You  
19 can mark it.

20 MS. FLAHERTY: Okay. We can talk maybe off  
21 the record the best way to handle it, but I'm inclined  
22 to probably mark it.

23 MR. WALKER: That's what I've seen done  
24 most of the time.

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1 MS. FLAHERTY: So we can probably mark that  
2 just so I don't forget as Exhibit No. 3.

3 (Khandwala Exhibit No. 3 marked and  
4 attached.)

5 BY MS. FLAHERTY:

6 Q. Going back to Exhibit No. 1 on page nine, number ten  
7 also asks about billing records, time sheets,  
8 et cetera, with respect to consulting work that you  
9 may have done with respect to studies, cadaver labs,  
10 personal education training are also listed.

11 Do you have any documents related to those  
12 items?

13 A. I do not.

14 Q. Okay. Are you currently doing any consulting work  
15 with Ethicon with respect to studies?

16 A. No, I'm not.

17 Q. Are you currently doing any work with Ethicon,  
18 actually with any manufacturer with respect to pelvic  
19 mesh products?

20 A. Well, I'm about to start.

21 Q. Okay. What are you about to start?

22 A. It is a study on vaginal mesh hysteropexy with the  
23 Restorelle, R-E-S-T-O-R-E-L-L-E, mesh system, and the  
24 company is called Coloplast.

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1 Q. And that's --

2 A. I'm sorry.

3 Q. I didn't mean to interrupt you.

4 A. There's just one more study we are about to start, and  
5 that is on tibial nerve stimulation for overactive  
6 bladder, and it is with Medtronics.

7 Q. Let's start first with the study that you anticipate  
8 starting soon with respect to Restorelle.

9 What is your understanding of what your  
10 role will be?

11 A. I am the primary investigator. It is an  
12 investigator-initiated study, so it is not a  
13 company-sponsored study. So I have initiated the  
14 study, and I sent the proposal to the company for  
15 sponsorship and their investigative body approved it,  
16 and so I will be maintaining the entire control of the  
17 clinical trial.

18 Q. Okay. And how long do you anticipate that clinical  
19 trial to take?

20 A. The enrollment will probably last about nine months  
21 and the follow-up is for three years.

22 Q. And I can't recall. Is Restorelle a product for  
23 pelvic organ prolapse or for incontinence?

24 A. Pelvic organ prolapse.

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1 Q. And with respect to the tibial nerve stimulation study  
2 with Medtronic, what do you understand your role to be  
3 with that study?

4 A. I will be one of the coinvestigators. So this is an  
5 industry-sponsored trial which Medtronics has started  
6 because they're coming up with a new technique for  
7 management of overactive bladder, so they want to  
8 assess and see how effective it is. So this is the  
9 initial clinical pilot trial that we will be involved  
10 with.

11 MR. WALKER: Doctor, let me just say I  
12 don't know the terms of any kind of agreements you may  
13 have with these other companies, but just make sure  
14 you don't divulge anything that's confidential in  
15 terms of those agreements when you're answering  
16 questions.

17 BY MS. FLAHERTY:

18 Q. Are there any other consulting agreements that you  
19 have with pelvic mesh manufacturers other than what we  
20 just talked about?

21 A. Well, there are two studies which are closing down.  
22 One was the 522 study for Elevate mesh by American  
23 Medical Systems or Astora, so they're shutting it  
24 down, and the other was with Coloplast on the Exair,

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1 E-X-A-I-R, system which was also a 522 which was  
2 shutting down. So it's almost in its final phases of  
3 closing down.

4 Q. And what was your role with respect to the two 522  
5 studies?

6 A. So as you may know, the FDA had advised that there  
7 should be these 522 postmarketing surveys and analysis  
8 be performed. So we were part of that in the mesh  
9 group to see the role of vaginal mesh for prolapse  
10 with the Elevate system and also with the Exair  
11 system.

12 Unfortunately, both these companies decided  
13 to shut it down, their products. So we're not doing  
14 the study anymore.

15 Q. Okay. Other than these studies, so we've talked about  
16 the upcoming studies on Restorelle and the nerve  
17 stimulation study and the two 522 studies that the  
18 companies are going to discontinue or shut down was I  
19 think how you described it, is there any other  
20 consulting work that you are currently doing for  
21 pelvic mesh manufacturers?

22 A. No.

23 Q. Are you doing any consulting work for Ethicon on  
24 products other than pelvic mesh?

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1 A. No, I'm not.

2 Q. Have you done any?

3 A. I'm not doing any consulting for pelvic mesh either.

4 Q. Okay. Have you done any consulting work for Ethicon  
5 on any pharmaceutical products?

6 A. No.

7 Q. Okay. Are you currently doing any consulting or other  
8 work with respect to cadaver labs for pelvic mesh  
9 manufacturers?

10 A. No.

11 Q. And do you have any plans to do that in the  
12 foreseeable future?

13 A. It's possible.

14 Q. Okay. Is that with respect to a certain manufacturer  
15 or product?

16 A. It's hard to say. Whatever comes by. So if it is  
17 something that is interesting to me, I may do a study,  
18 but nothing in the foreseeable future.

19 Q. Okay. You have done some training and education for  
20 Ethicon with respect to pelvic mesh products in the  
21 past, is that correct?

22 A. That is correct.

23 Q. And have you had agreements or contracts with Ethicon  
24 with respect to your role in those training programs?

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1 A. Yes, I have.

2 Q. Do you have copies of those agreements?

3 A. You know, those were way back, you know, when the  
4 Prolift and Prolift+M meshes were just coming out, so  
5 this is we're talking about maybe 2004, 2005. So I'm  
6 sure -- I could have them, but it would be hard to dig  
7 them out.

8 Q. Okay. And you've been paid over the years by Ethicon  
9 for your assistance in helping with those training  
10 sessions, is that correct?

11 A. That is correct.

12 Q. Do you have documents that reflect the amount of the  
13 monies that you have received from Ethicon over the  
14 years?

15 A. It would probably be on my tax returns, but that's the  
16 only way I could find it.

17 Q. Do you know if Ethicon sends you a 1099 in the years  
18 that you do some work for them?

19 A. Yes, but, again, I don't know how to break it down  
20 between a clinical trial because at the same time I  
21 was doing an investigator-initiated study on the  
22 TVT-Secur in-office, so I was getting reimbursed for  
23 that too by Ethicon.

24 So I don't know how to break up whether I



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1           went for a proctorship course, when I was proctoring  
2           at my site, or whether I was being paid for the  
3           clinical trial. So they were just giving me a lump  
4           sum 1099.

5       Q.    Okay. Do you have records that you submitted to  
6           Ethicon when you were working on the TVT-Secur that  
7           would reflect the expenses and things that you had?

8       A.    Yes, I'm sure we have that.

9       Q.    Okay. So that's something that you could reproduce?

10      A.    It was in 2006 is when we did the clinical trials, so  
11           I don't know if we still have those records. But if  
12           it is, we should be able to find it.

13      Q.    Okay. Do you recall, you know, over the years --  
14           well, strike that.

15                       Is it fair to say you've been doing some  
16           work with Ethicon for probably the past fifteen to  
17           sixteen years?

18      A.    I don't think I have been doing for since maybe 2008,  
19           2009.

20      Q.    Okay.

21      A.    I haven't done much. I have done my own clinical  
22           trials using the Ethicon products but not for Ethicon.

23      Q.    Okay.

24      A.    So I believe it may have spiked around the time when

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1 the TVT-O, the TVT-Secur, and the Prolift+M meshes  
2 were just getting started.

3 Q. Okay.

4 A. So maybe about six years or so, around 2002 to 2008  
5 possibly.

6 Q. Okay. So you think that was probably the peak of your  
7 work for Ethicon?

8 A. Yes.

9 Q. Okay. Do you know during that roughly four- to  
10 five-year time period about how much money Ethicon  
11 paid you?

12 A. No, I'm sorry, I don't.

13 Q. And that would be something that you think would be on  
14 your tax returns or the 1099s?

15 A. Yes. However, it will again be mixed with my clinical  
16 trial, so I do not know how to differentiate that.

17 MR. WALKER: And I just want to put on the  
18 record, I believe we have an outstanding objection to  
19 the request for Doctor Khandwala's 1099s.

20 BY MS. FLAHERTY:

21 Q. On the -- you had mentioned that it's difficult to  
22 discern which monies might be associated with training  
23 or consulting and which might be associated with  
24 clinical trials, is that fair?

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1 A. That's correct.

2 Q. I want to make sure I have an understanding of the  
3 money that comes with respect to the clinical studies.  
4 Can you describe that for me a little bit?

5 A. Yes. So the TVT-Secur study that we did was an  
6 investigator-initiated study. That means I initiated  
7 the study, and I sent the proposal over to the Ethicon  
8 research committee and they approved it.

9 Once they approved it, then we had set some  
10 specific budget, timely budget, and they paid for  
11 those invoices, for example, when it went for the IRB,  
12 when the initial patients enrolled, when we got the  
13 consents, when they came back for their surgery, when  
14 they came back for the postoperative visits. So for  
15 all those activities performed, invoices were made and  
16 submitted to Ethicon once they're created.

17 Q. Do you have any recollection of what those invoices  
18 totaled for the TVT-Secur study?

19 A. I'm sorry, I don't know offhand.

20 Q. Do you know if it was above one hundred thousand?

21 A. Very unlikely.

22 Q. Okay. If we go on Exhibit No. 1 down to number  
23 twelve, it asks for correspondence and other  
24 communications with employees of defendants with

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1 respect to the female pelvic mesh products.

2 Do you have a file or a correspondence  
3 folder for your communications with the company?

4 A. No, I do not.

5 Q. Okay. Is there anyplace where you keep e-mail  
6 communications that you may have with Ethicon?

7 And just to clarify, I'm not talking about  
8 any communications that you may have with lawyers that  
9 are representing Ethicon. These would be  
10 communications directly with Ethicon.

11 A. No, I do not keep any folders or any e-mails.

12 Q. Okay. Do you have a file with respect to the  
13 TVT-Secur study that you did with Ethicon?

14 A. For the study itself?

15 Q. Yes.

16 A. Yes, I do.

17 Q. Okay. And would that study -- or strike that.

18 Would that file include communications that  
19 you may have had with Ethicon during that time period?

20 A. So, again, the study was an investigator-initiated  
21 study, so Ethicon did not have any role to play in  
22 this study. So all the information in the study would  
23 be pertaining to the study documents, you know, and  
24 the study paper that was done and eventually

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1 published, and there were no communications with  
2 Ethicon. I was not obliged to inform them as to what  
3 was going on.

4 And that's one of the main things that we  
5 had set up is that Ethicon will not influence or  
6 impact the clinical studies or the clinical outcomes,  
7 it will be entirely up to us to do it. So the only  
8 interaction and e-mails that could have gone back and  
9 forth would be sending them invoices for that  
10 particular setup for that period of time.

11 Q. And is it fair to say there would have been some  
12 initial communication when you approached them with  
13 respect to the study that you were doing?

14 A. That is correct.

15 Q. And with respect to some of the training and I'll call  
16 it nonclinical study work that you have done with  
17 Ethicon, how do they communicate with you about those  
18 sessions?

19 A. Well, it depends on what was the session. If it was a  
20 proctorship at my site where surgeons were coming in,  
21 then it would be the local representative for Ethicon  
22 who would set it up and let me know that a few doctors  
23 are coming in on a certain date, was it okay with me,  
24 and then we would arrange it with the hospital. So

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1           that's how it would happen.

2                       If I was to go to a site to do a cadaver  
3           lab, then it would be set up by the manager of the  
4           area or the educational person in charge for Ethicon.  
5           They would set it up and they would call me and ask me  
6           whether I would want to be a proctor for that  
7           particular course, cadaver course.

8                       If it was training at a doctor's site where  
9           I had to visit a doctor to go, then a particular  
10          manager of that district, you know, sales manager or  
11          someone, would call me and say could you come and  
12          proctor this doctor on this particular product.

13                      So it all depends on what was the outcome,  
14          what was being asked.

15       Q.    Okay. And if those communications were via e-mail, it  
16              sounds like you probably would not have saved those  
17              e-mails?

18       A.    Most of the communications I believe were verbal, a  
19              phone call, a rep letting me know in the operating  
20              room that this is happening.

21       Q.    Okay. And how -- actually, strike that.

22       A.    And I think most of these happened around 2004. I  
23              highly doubt if I did any consulting of significance  
24              after 2007.

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1 Q. Okay. Do you recall when the last time was that you  
2 had communication with an Ethicon employee? Again,  
3 not the lawyers, just the Ethicon employees.

4 A. When I had gone for a court case in Texas, I believe  
5 it was last year, Butler Snow, and I think I met  
6 Mr. -- well, he was not employed, Mr. Hinoul. I don't  
7 think he was employed. So it's been a long time since  
8 I've communicated with any existing employees.

9 Q. Okay. And we'll get into this a little bit further  
10 later, but since you mentioned 522 studies, I want to  
11 ask so I don't forget.

12 Was the TVT-Secur -- strike that.

13 The FDA had indicated that J & J also  
14 needed to do a 522 study on the TVT-Secur, is that  
15 correct?

16 A. That is correct.

17 Q. Did you do any work with respect to -- well, first of  
18 all, did they start the 522 studies on the TVT-Secur?

19 A. Not that I'm aware of.

20 Q. Okay. Did you do any consulting with Ethicon with  
21 respect to the 522, potential 522 studies on  
22 TVT-Secur?

23 A. No.

24 Q. Okay. You had mentioned that you've done various

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1 types of training, primarily several years ago, with  
2 respect to Ethicon's pelvic mesh products.

3 Did you ever speak at what I would call a  
4 symposium or a conference perhaps to other medical  
5 professionals?

6 A. Yes, I did.

7 Q. Okay. Did you have any presentation materials related  
8 to those speeches or presentations?

9 A. Yes.

10 Q. Okay. Do you maintain copies of those materials?

11 A. Not specifically for a conference as such but just  
12 overall slides that I do have.

13 Q. Okay. And are those something that you maintain?

14 Well, how do you maintain those?

15 A. In a PowerPoint presentation, so it's usually by  
16 topic. If I'm talking on stress incontinence, it will  
17 be a stress incontinence slide set, and if it is  
18 prolapse, it will be on a prolapse slide set. So it  
19 will be by subject.

20 Q. And is that something you maintain electronically?

21 A. Yes.

22 Q. And so you would have copies of those on your computer  
23 system?

24 A. Yes.



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1 Q. Okay. In addition to the PowerPoints, would you have  
2 any other course materials that you would maintain?

3 A. Are you asking specifically for something or just  
4 overall?

5 Q. Just with respect to Ethicon pelvic mesh products.

6 A. So this could be for, if I understand correctly, this  
7 could be for training anybody, it could be any  
8 residents, anybody?

9 Q. Yes, correct.

10 A. Yes. Well, we do have in an electronic format that we  
11 have in our patient medical records because we do go  
12 over that information with our patients when they come  
13 in to the office for incontinence and we are talking  
14 to them about different techniques of management of  
15 incontinence.

16 So we explain to them about what a TVT is,  
17 what a transobturator sling is, what a mini sling is.  
18 So that information is there, and then electronic  
19 medical records, the risks, benefits, what it is and  
20 things like that.

21 Q. Okay. And I think I probably didn't phrase the  
22 question very well. What I'm wondering about is when  
23 you would give a presentation at a symposium or to  
24 another group of medical professionals regarding

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1 pelvic mesh products, would you prepare course  
2 materials?

3 A. Not usually. It's more of, more often than not it's a  
4 slide set. If I'm giving out anything, it's usually  
5 my published papers.

6 Q. Okay. Do you have any videotapes or other electronic  
7 or digital I guess depictions of your presentations?

8 A. I don't.

9 Q. Okay. Do you know if other people have those?

10 A. I do not know.

11 Q. Did you ever participate in any market evaluations  
12 with respect to Ethicon's pelvic mesh products?

13 A. Could you please explain?

14 Q. Sure. On Exhibit 1, the bottom at page nine, it also  
15 asks for marketing evaluations created or provided,  
16 created by or provided to you.

17 A. Yes. I believe there was a time when -- I do not know  
18 if it was marketing or education to the news media.  
19 There's one time when I was interviewed by the news  
20 media about the Prolift or the Prolift+M system. I do  
21 not recall which one it was. This was several years  
22 ago, and I think it came in some newspaper that  
23 Doctor Khandwala was interviewed and this is what he  
24 said.

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1 Q. Okay. Did you -- with respect to the TVT-Secur study,  
2 did you maintain minutes for any study meetings that  
3 may have occurred?

4 A. Well, there were three different studies.

5 MS. FLAHERTY: Off the record.

6 (Off the record at 9:39 a.m.)

7 (Back on the record at 9:39 a.m.)

8 THE WITNESS: So there were different  
9 clinical trials, so one was as I mentioned the  
10 investigator-initiated study. I do not have any  
11 minutes on that.

12 Then there were two others, but I do not  
13 know if Ethicon would have kept the minutes. One  
14 was the TVT World Registry which Doctor Tincello,  
15 T-I-N-C-E-L-L-O, he was the person in charge. So I'm  
16 not sure if they kept the minutes.

17 And the other was the initial pilot  
18 clinical trial that we did with the TVT-Secur in 2006,  
19 and that, I did not keep any minutes. I don't know if  
20 anybody else did.

21 BY MS. FLAHERTY:

22 Q. Do you have -- with respect to the initial clinical  
23 trial and the investigator-initiated trials for Secur,  
24 do you have what I'll call raw study data that you

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1 have maintained?

2 A. For the investigator-initiated trial? Yes.

3 Q. Okay.

4 A. I think I'm obliged to keep them for a certain number  
5 of years, but I still kept the case-specific reports.

6 Q. Okay. And how are those maintained?

7 A. In hard copy.

8 Q. Are those hard copies maintained here at your office  
9 or in another location?

10 A. In a storage, it has to be in a storage facility.

11 Q. Where is that storage facility located?

12 A. It's somewhere in Dearborn, close by.

13 Q. Have you testified before the FDA or any other  
14 governmental agencies with respect to pelvic mesh  
15 products?

16 A. I have not.

17 Q. Okay. Do you have any graphs or presentations or  
18 charts that you may have used during the trial in  
19 Texas?

20 And I'll just clarify that. That were  
21 actually used in front of a jury. I'm not talking  
22 about things you discussed with your lawyers during  
23 the trial.

24 A. No, I don't.

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1 Q. Okay. So we talked about the invoice, the hard copy  
2 binders, and the thumb drive that you have brought  
3 with you today.

4 Are there any other materials or items that  
5 you have brought in response to the deposition notice  
6 that we have not yet discussed?

7 A. The outside information also included, the hard copy.

8 Q. Correct. The binders?

9 A. Yes.

10 Q. The binders of hard copies?

11 A. Yes.

12 Q. Is that the totality of everything you have with you  
13 for today?

14 A. Yes.

15 Q. Okay.

16 MR. WALKER: In addition to his report and  
17 cited material in those reports.

18 MS. FLAHERTY: Understood.

19 MR. WALKER: Yeah.

20 MS. FLAHERTY: Why don't we mark the two  
21 reports as exhibits.

22 MR. WALKER: Can we go off the record?

23 MS. FLAHERTY: Yeah, let's go off the  
24 record.

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1 (Off the record at 9:42 a.m.)

2 (Back on the record at 9:43 a.m.)

3 (Khandwala Exhibits Nos. 4 and 5 marked and  
4 attached.)

5 BY MS. FLAHERTY:

6 Q. Okay. So the court reporter has handed you what has  
7 been marked as Exhibit No. 4 and Exhibit No. 5.

8 Do you have those in front of you?

9 A. Yes, I do.

10 Q. Okay. And let's start with Exhibit No. 4.

11 Do you recognize this document?

12 A. Yes, I do.

13 Q. Okay. And what is it?

14 A. It is my general report on TVT and the TVT-O system.

15 Q. Okay. And is that your signature on the first page?

16 A. Yes, it is.

17 Q. Okay. And that's dated June 3rd, 2016, correct?

18 A. Yes.

19 Q. All right. And since you issued this report just a  
20 little over a month ago, have you made any changes to  
21 the report?

22 A. No, I have not.

23 Q. Do you currently have any plans to amend this report?

24 A. Currently, no.

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1 Q. Okay. Do you anticipate that you may be seeking to  
2 amend it in the future?

3 A. It is possible.

4 Q. Do you know when you may make that decision?

5 A. For example, if I get some new information on new  
6 studies that might come up and I have to add them into  
7 that, if it is pertinent enough, then I may do it.

8 Q. Okay. But as you sit here today, are there any  
9 studies or other information that you feel needs to be  
10 added to Exhibit No. 4?

11 A. No.

12 Q. Okay. And the other document that is in front of you  
13 is Exhibit No. 5?

14 A. Yes.

15 Q. And do you recognize that document?

16 A. Yes, I do.

17 Q. And what is that?

18 A. It is my report on the TVT-Secur suburethral sling  
19 system.

20 Q. And on page one, is that your signature?

21 A. Yes, it is.

22 Q. Okay. And this report is also dated June 3rd, 2016,  
23 is that correct?

24 A. That is correct.

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1 Q. Okay. And have you made any changes to this report?

2 A. I have not.

3 Q. So she doesn't get mad at us. I know you can  
4 anticipate, but, and as you sit here today, do you  
5 have any plans to amend Exhibit No. 5?

6 A. No, I do not.

7 MS. FLAHERTY: Okay. Why don't we mark the  
8 CV.

9 (Khandwala Exhibit No. 6 marked and  
10 attached.)

11 BY MS. FLAHERTY:

12 Q. The court reporter has handed you what has been marked  
13 Exhibit No. 6.

14 Do you recognize this document?

15 A. Yes, I do.

16 Q. And what is this?

17 A. It is my curriculum vitae.

18 Q. Okay. And I'll represent to you that we obtained this  
19 exhibit, it was attached as the CV to your reports.

20 Have you made any changes to your CV since  
21 June 3rd of 2016?

22 A. No, I have not.

23 Q. Okay. And as you sit here today, are you aware of  
24 any -- anything that needs to be changed on your CV?



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1 A. No.

2 Q. Okay. Do you have any presentations or publications  
3 that perhaps are pending that are not yet listed on  
4 your CV?

5 A. Yes.

6 Q. Okay. And what are those?

7 A. There are two clinical trials that we have just  
8 submitted for publication.

9 Q. What are those clinical trials?

10 A. One is on the Exair, that's E-X-A-I-R, mesh system for  
11 vaginal mesh hysteropexy, and the other is the MiniArc  
12 suburethral sling procedure for stress incontinence.

13 Q. And the MiniArc, that is an American Medical Systems  
14 product?

15 A. That is correct.

16 Q. I think they actually have another name now.

17 A. Astora.

18 Q. Correct.

19 And the other one, Exair, is that  
20 Coloplast?

21 A. Yes.

22 Q. Okay. Do you know or anticipate when those studies  
23 will be published?

24 A. We haven't heard back from the reviewers yet. We've

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1 just sent the documents over.

2 Q. And how long does that process usually take?

3 A. It could take up to about four weeks for them to  
4 review it, and then if they come with edits, then we  
5 have to go back and forth with the edits. So it could  
6 take up to a couple of months.

7 Q. Do you have -- let's start first with the MiniArc  
8 study. Do you have a coauthor or cosponsor -- I'm not  
9 quite sure what the correct phrase is -- on that  
10 study?

11 A. It is our own study. It is a non-sponsored study and  
12 there is no coinvestigator.

13 Q. And when you say our own, you mean Doctor Khandwala  
14 and his office?

15 A. That is correct.

16 Q. Okay. And with respect to the Coloplast product,  
17 Exair I think it is called, do you have any coauthors  
18 or coinvestigators with you on that?

19 A. No. However, that is an investigator-initiated study,  
20 so it was sponsored by Coloplast, but Coloplast had  
21 nothing to do with the study design or the writing of  
22 the paper or enrollment.

23 Q. Has Coloplast seen a draft of the paper?

24 A. They have not.

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1 Q. All right. Are those the only two studies or papers  
2 that are currently pending that are not listed on your  
3 CV?

4 A. That is correct.

5 Q. Okay. And then on the very last page of your CV,  
6 under references, it looks like those are redacted.

7 I'm assuming that's the names of other  
8 doctors or colleagues of yours?

9 A. Yes.

10 Q. Okay. And one other thing I wanted to ask. With  
11 respect to the last page, it lists your professional  
12 memberships.

13 A. Yes.

14 Q. The American College of Obstetrics and Gynecology,  
15 that's also known as ACOG?

16 A. Yes.

17 Q. Yes.

18 A. Yes.

19 Q. And the American Urogynecology Society?

20 A. Yes.

21 Q. Are there any others that you participate in as a  
22 member?

23 A. No.

24 Q. You can set this exhibit aside.

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1 (Khandwala Exhibit No. 7 marked and  
2 attached.)

3 BY MS. FLAHERTY:

4 Q. All right. The court reporter has handed you what has  
5 been marked as Exhibit No. 7.

6 Do you recognize this document?

7 A. Yes, I do.

8 Q. And what is this?

9 A. It is my Reliance List.

10 Q. And we had previously conferred with counsel for  
11 Ethicon, and it's our understanding that the Reliance  
12 List for both your TVT-Secur and your TVT, TVT-O  
13 reports are identical.

14 Is that your understanding?

15 A. It's all together.

16 Q. So it's one comprehensive list?

17 A. Yes.

18 Q. Okay. It's a long list, so we didn't want to compare  
19 line by line if we didn't have to.

20 And since you prepared the report on  
21 June 3rd, are there any materials that you feel need  
22 to be added to this Reliance List?

23 A. No.

24 Q. Okay. Aside from your own personal experiences, I

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1 know you've been practicing for many years, Doctor,  
2 does the Reliance List contain the totality of  
3 information that you relied upon with respect to your  
4 opinions in your reports?

5 A. Besides my experience, yes.

6 Q. Okay. And have you reviewed all the items that are on  
7 the Reliance List?

8 A. Yes, I have.

9 Q. You personally or have some people assisted you?

10 A. No, I reviewed it myself.

11 MR. WALKER: I'm sorry. Assist in the  
12 compilation or the review?

13 MS. FLAHERTY: The review of the materials,  
14 not preparation of the list.

15 MR. WALKER: Okay. Object to form.

16 MS. FLAHERTY: Okay. That's fine.

17 BY MS. FLAHERTY:

18 Q. Do you know when you last reviewed items that are  
19 listed on the Reliance List?

20 A. Just about a couple of days ago when I was again  
21 reviewing for the general report.

22 Q. And I can't recall but I think you had on your invoice  
23 roughly how much time you have spent in preparation of  
24 the report.

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1 Does that time -- thank you. Does that  
2 time include reviewing the materials that are on the  
3 Reliance List?

4 A. Yes.

5 Q. Okay. So the seventy-two hours listed for the general  
6 report and then there are some additional hours for  
7 the case-specific reports.

8 A. However, several of these papers I have already  
9 reviewed before, so I've been ongoing reviewing these  
10 articles because we publish all the time. So when  
11 you're publishing, you have to know several of these  
12 topics.

13 So, in fact, when I was publishing for the  
14 Exair paper, in the discussion you have to know what  
15 other prolapse studies were done. So I keep reviewing  
16 these and I keep reviewing these articles on an  
17 ongoing basis.

18 So several of these articles and papers I'd  
19 already reviewed, and that's why I put it in my  
20 Reliance List, and some I reviewed as preparation to  
21 the general report.

22 Q. Okay. Do you recall when you first started to receive  
23 materials to review with respect to your report? And  
24 I will -- I understand some of the studies you've read

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1 over the years. But with respect to the other  
2 materials, do you recall when you first started to  
3 review those?

4 A. When I started compiling the general report and I was  
5 wanting to see what other articles were there, so I  
6 usually contact my hospital library and I give it a  
7 list of articles that I would want to see.

8 So, for example, if I read a paper and I  
9 find that in the reference of that paper there are  
10 some interesting articles, I would highlight them and  
11 my secretary would send the list over to my librarian,  
12 and my librarian would pull it up and send it back to  
13 me electronically. So that's how most of those  
14 articles are compiled, especially the medical  
15 literature articles were compiled in that fashion.

16 The Ethicon documents, however, I had some  
17 of the documents I had from the previous trial, and  
18 then when I looked at plaintiffs' depositions,  
19 especially plaintiffs' expert depositions, and when I  
20 read them and some of these documents were referenced,  
21 I contacted the attorneys to see if they could help  
22 track some of those documents for me.

23 Q. Okay. Did you also receive perhaps a DVD or some  
24 other storage -- strike that -- DVD or some other

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1 method of transmitting Ethicon documents that perhaps  
2 Ethicon provided directly to you?

3 A. I think most of it was electronically.

4 Q. Okay.

5 A. E-mail.

6 Q. And some of those you asked for and some of those  
7 Ethicon provided because they thought they would be  
8 relevant to your review?

9 A. That is correct.

10 Q. Okay. You had mentioned that you go to a librarian at  
11 the hospital?

12 A. Yes.

13 Q. Which hospital is that?

14 A. It's called Beaumont, Beaumont Dearborn Hospital. The  
15 name has just changed.

16 Q. Is that here in Dearborn, Michigan?

17 A. Yes.

18 Q. Is that the hospital where you have privileges?

19 A. Yes.

20 Q. Would that be considered your primary hospital?

21 A. Yes.

22 Q. Okay. Is that where you conduct your surgeries?

23 A. It is another hospital but in the same system.

24 Q. Okay. Are there other hospitals in Michigan or



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1 elsewhere where you have privileges?

2 A. It is under the same umbrella called Beaumont Health  
3 System.

4 Q. Okay.

5 A. But two different hospitals, one is in Dearborn, one  
6 is in Annapolis.

7 Q. Okay. Annapolis in Michigan or Annapolis in a  
8 different state?

9 A. Michigan.

10 Q. Are there any documents that you had asked for that  
11 perhaps Ethicon wasn't able to locate or has not yet  
12 been able to provide?

13 A. I don't recall.

14 Q. Okay. I believe your Reliance List materials indicate  
15 that you had reviewed some of the deposition  
16 transcripts for plaintiffs and perhaps some doctors,  
17 is that correct?

18 A. That is correct.

19 Q. Have you reviewed deposition transcripts for any of  
20 plaintiffs' expert witnesses?

21 A. Yes, I have.

22 Q. Have you reviewed any videotapes of any depositions?

23 A. No, I have not.

24 Q. So your review of depositions would have been done via

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1 reading a transcript?

2 A. That is correct.

3 Q. Okay. As you prepared your reports, I believe they  
4 are marked as 4 and 5, did you consult with any other  
5 experts as you prepared those reports?

6 A. No, I did not.

7 Q. Other than your lawyers, did you consult with anyone  
8 else while you were preparing the two reports?

9 A. Actually, I did not even consult with my lawyers about  
10 the report. I did the report entirely on my own.

11 Q. Okay. Do you have any staff or assistants that help  
12 you with perhaps assembling some of the materials and  
13 things?

14 A. Yes, just as I mentioned, mainly to get the articles  
15 from the librarian. My secretary would go and get  
16 those articles, and I give her a highlighted list of  
17 which articles I need, and then once she brings it, I  
18 will highlight the text and she would type that text  
19 and, you know, compile it for me, and I would review  
20 that and put it in my report.

21 Q. Okay. Do you keep any time records for your secretary  
22 or any other staff that may be assisting you?

23 A. Actually, I do not.

24 Q. Okay.

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1 A. Maybe I should.

2 Q. Sorry.

3 We had talked a little bit earlier about  
4 some of your consulting work with Ethicon and some  
5 other companies.

6 Are there any other companies that you have  
7 consulted for in the past with respect to medical  
8 devices?

9 A. Yes, I have.

10 Q. Okay. And what are those companies?

11 A. Coloplast, American Medical Systems, slash, Astora,  
12 Medical Devices, Medtronics.

13 Q. Okay. And the Medtronic consulting, is that with  
14 respect to the I think it was a stimulation device for  
15 incontinence?

16 A. Yes, but I'm not doing it that much for the InterStim.  
17 It's more for the tibial nerve stimulation which is an  
18 upcoming study.

19 Q. Have you done any consulting on the InterStim?

20 A. No, I have not.

21 Q. Okay. Do you still treat patients, Doctor?

22 A. Yes, I do.

23 Q. On an average week, about what percentage of your  
24 workweek is devoted to treating patients?

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1 A. About seventy percent.

2 Q. Is the other thirty percent related to litigation  
3 activities?

4 A. No. It is mainly related to clinical trials, my  
5 ongoing studies, education, because I teach at least  
6 two OB/GYN residents per month on an ongoing basis.

7 And we did have a fellowship until now but  
8 my fellow had to leave, but we're expecting a fellow  
9 within a few weeks. So it's training the fellow and  
10 then some of the typical administrative activities  
11 that you have to do to run an office.

12 Q. You had mentioned that you teach two OB/GYN residents  
13 per month.

14 When you say typically, is that a formal  
15 program that you do at one of the colleges or medical  
16 schools, or is it more of an internship with your,  
17 with your practice?

18 A. Each OB/GYN program has a requirement where the  
19 residents have to do some type of subspecialty  
20 rotation, and one of the subspecialty rotations that  
21 they're expected to do is in urogynecology.

22 So there are four programs which have  
23 OB/GYN residencies, and they send their residents to  
24 me. One is the Wayne State University School of

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1 Medicine, so I am their main urogynecology faculty.  
2 Then the Oakwood, slash, Beaumont Dearborn Hospital  
3 Medical System. Third is Botsford Hospital and fourth  
4 is Genesys Hospital.

5 So these are four hospitals in my area  
6 where they have OB/GYN residencies, and their  
7 residents come to me for their urogynecology training.

8 Q. Okay. And how long does that training typically last?

9 A. It's typically between one to two months.

10 Q. Okay. And is that -- is it fair to say that that  
11 training is not necessarily specific just to pelvic  
12 mesh products but to the larger urogyn practice?

13 A. Yes, correct.

14 Q. Would that also be similar with respect to your  
15 training of fellows?

16 A. Yes.

17 Q. Okay. Have you ever served as an expert for a pelvic  
18 mesh company other than Ethicon?

19 A. No.

20 MR. WALKER: In litigation?

21 MS. FLAHERTY: In litigation, yes.

22 THE WITNESS: No.

23 BY MS. FLAHERTY:

24 Q. Okay. Have you ever served as a litigation expert for

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1 any type of case other than the current Ethicon pelvic  
2 mesh cases that you're working on?

3 A. Yes, I have.

4 Q. Okay. Did any of those involve medical devices?

5 A. Yes.

6 Q. Did any of those involve pelvic mesh products?

7 A. Yes.

8 Q. Can you describe those for me, please?

9 A. It was an Elevate system which is an American Medical  
10 System product, and it was a case against one of the  
11 doctors who had implanted that device. So I was  
12 involved as an expert. I was deposed as an expert.

13 Q. And for whom were you an expert?

14 A. For the doctors, the defense attorney.

15 Q. So in that Elevate case, the plaintiff's lawyers had  
16 alleged that the doctor may have done something wrong,  
17 is that correct?

18 A. That is correct.

19 Q. And you were retained to testify as to whether or not  
20 that doctor did anything wrong?

21 A. Yes.

22 Q. Okay. And was it your opinion that the doctor did not  
23 breach any standard of care?

24 A. Yes.

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1 Q. Okay. Did that case go to trial?

2 A. No, it did not.

3 Q. Okay. But you were deposed?

4 A. Yes.

5 Q. Did you issue a report on that case?

6 A. Yes, I did.

7 Q. Do you recall where that case was located?

8 A. Where I was deposed?

9 Q. Not physically where your deposition was but where the  
10 case itself was pending.

11 A. I think it was Arkansas.

12 Q. Have you ever served as an expert, litigation expert,  
13 in other medical malpractice cases?

14 A. Not that I recall.

15 Q. Okay. Have you ever served as an expert, have you  
16 ever served as a litigation expert on behalf of a  
17 plaintiff in any type of litigation?

18 MR. WALKER: I'm going to object to form.

19 THE WITNESS: Not that I recall.

20 BY MS. FLAHERTY:

21 Q. Are there any other cases in which you have served as  
22 a litigation expert, again, other than Ethicon and the  
23 Elevate case that you just mentioned?

24 MR. WALKER: Object to form.

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1 THE WITNESS: Not that I recall.

2 BY MS. FLAHERTY:

3 Q. Okay. You had indicated that you still treat  
4 patients, and that's about seventy percent of your  
5 time at this point, your work, your work time?

6 A. That is correct.

7 Q. Do you -- on average, about how many patients do you  
8 see per week?

9 A. About anywhere from seventy to eighty patients.

10 Q. Do you have a general breakdown of how those  
11 patients -- how many of those patients come to you  
12 with urinary stress incontinence issues?

13 A. Let's see. Well, all of those are not new patients.  
14 But if you just take all of them, if it's new  
15 consultation or established patients, I would probably  
16 say maybe about twenty, twenty-five percent.

17 Q. This may seem like a silly question but I'll ask. Do  
18 you treat any men for uro issues?

19 A. No.

20 Q. Okay. So your practice is one hundred percent female  
21 based?

22 A. Yes.

23 Q. Okay. And approximately what percentage of your  
24 patients do you treat for pelvic organ prolapse?



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1 A. Similar percentage, about twenty-five percent.

2 Q. And so the other fifty percent of your patients is it  
3 fair to say see you for a variety of gynecological or  
4 urogynecological issues?

5 A. My practice is essentially entirely urogynecology. So  
6 they may be coming for overactive bladder, urgency  
7 incontinence, pelvic pain, painful bladder syndrome or  
8 urgency and frequency, mixed incontinence. So that's  
9 predominantly what I would be seeing otherwise.

10 Q. Okay.

11 A. Bladder infections.

12 Q. You had mentioned that you testified at a trial down  
13 in Texas?

14 MR. WALKER: Object to form.

15 BY MS. FLAHERTY:

16 Q. Have you testified at trial before?

17 A. No.

18 Q. Okay. So you've never testified at any trial, pelvic  
19 mesh or otherwise?

20 A. No.

21 Q. Okay. Do you want to take a break? It's about an  
22 hour.

23 A. I'm fine.

24 Q. Okay. I know some people like a break every hour or

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1 so.

2 Have you conducted any -- strike that.

3 Have you ever worked for the FDA?

4 A. No, I have not.

5 Q. Have you ever done any consulting work for the FDA?

6 A. No, I have not.

7 Q. Have you ever served as a regulatory consultant?

8 A. No, I have not.

9 Q. Have you done any work commenting or helping to draft  
10 proposed regulations with the FDA?

11 A. No, I have not.

12 Q. Have you done any work advising or consulting on  
13 compliance issues with the FDA?

14 A. No, I have not.

15 Q. Okay. Do you consider yourself an expert with respect  
16 to FDA regulations?

17 A. No, I do not.

18 Q. Have you ever done any work drafting warning labels  
19 for any kind of medical product?

20 A. No, I have not.

21 Q. Okay. And so that would include no warning labels  
22 with respect to pelvic mesh products?

23 A. That is correct.

24 Q. Okay. Have you -- strike that.

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1 Do you have -- you're not a pathologist,  
2 are you?

3 A. I am not.

4 Q. Okay. And so you don't have any certifications with  
5 respect to pathology?

6 A. I can see slides. As a part of gynecology residency,  
7 we do a pathology rotation. So we can see slides and  
8 understand how to read slides, but I'm not a certified  
9 pathologist.

10 Q. Okay. And you have not previously served as an expert  
11 specific to issues on pathology?

12 A. That is correct.

13 Q. Okay. And you are not a toxicologist, are you,  
14 Doctor?

15 A. I am not.

16 Q. Okay. And you have not previously served as an expert  
17 on issues specific to toxicology?

18 A. That is correct.

19 Q. Are you familiar with the term Device History File?

20 A. No, I'm not.

21 Q. Okay. Is it fair to say then that you have not worked  
22 on a Device History File?

23 A. That's correct.

24 Q. Okay. Are you familiar with the term DFMEA?

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1 A. No, I'm not.

2 Q. Okay. How about Design Failure Mode Effects Analysis?

3 A. No, I'm not familiar.

4 Q. Okay. So, again, fair to say that you probably have  
5 not worked on Design Failure Effects Analysis?

6 A. That is correct.

7 Q. Okay. Similarly, are you familiar with the phrase  
8 FMEA which is Failure Mode and Effects Analysis?

9 A. No, I have not.

10 Q. Okay. And you have not done any work specific to  
11 Failure Mode and Effects Analysis?

12 A. That is correct.

13 Q. Okay. And one more for you. I know they sound  
14 similar. FMMEA which is Process Failure Mode Effects  
15 Analysis.

16 Are you familiar with that?

17 A. I am not.

18 Q. Okay. And so you have not done any work specific to  
19 Process Failure Mode Effects Analysis?

20 A. That is correct.

21 Q. I forgot to ask this earlier. Have you ever been on  
22 an FDA advisory board?

23 A. No, I have not.

24 Q. Have you ever communicated directly with the FDA

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1           regarding your opinions on pelvic mesh products?

2       A.    Yes, I have.

3       Q.    Okay. And in what context was that?

4       A.    It was a paper that we had submitted with the lead  
5           author being Miles Murphy in response to the FDA  
6           advisory of 2011.

7       Q.    Do you know if that paper was published?

8       A.    Yes, it was.

9       Q.    I'm sure it's on your list, but do you recall where,  
10           in what journal or where it was published?

11      A.    I think it was the American Urogynecology Journal, the  
12           Gold Journal.

13      Q.    Are you familiar with the phrase MAUDE Report?

14      A.    Yes.

15      Q.    Have you ever filed a MAUDE Report?

16      A.    I have not.

17      Q.    Do you differentiate between a MAUDE Report and an  
18           Adverse Event Report?

19      A.    It depends on if it's part of a clinical trial because  
20           many of my patients are part of clinical trials. So  
21           if it's part of a clinical trial, then we have to do a  
22           case-specific form called a CRF, and that has to be  
23           filed with the Institution Review Board.

24                           If there's any adverse event, whether it is

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1 a serious adverse event or just an adverse event, so  
2 that would be to a different channel. So that's the  
3 typical filing that I would be doing that we have  
4 done.

5 Q. Okay. And outside the clinical study context so with  
6 respect to your care and treatment of patients outside  
7 of clinical trials, have you prepared any Adverse  
8 Event Reports?

9 A. No, I have not.

10 Q. You had mentioned the CRFs --

11 A. Yes.

12 Q. -- which those, is it fair to describe those as the  
13 adverse event that may occur during a clinical trial?

14 A. No. These are just Clinical Research Forms, CRFs. So  
15 anything that goes into that form is what we keep. It  
16 could be patient information at their one-month visit  
17 or a six-month visit. So those are the patient forms,  
18 and that goes in the chart.

19 The Adverse Event Forms are different  
20 forms, and so those are also kept and sent to the  
21 Institution Review Board.

22 Q. Okay. And then do you keep the CRF forms as well for  
23 the clinical studies that you perform?

24 A. Yes.

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1 Q. And those also go to the IRB, is that correct?

2 A. Not all of them because most of them stay with us.

3 Only the Adverse Event Forms and something specific,  
4 then it would go to the IRB.

5 Q. So if something goes wrong or is adverse, it goes to  
6 the IRB. Otherwise, it stays with you?

7 A. If it goes to the IRB, then it stays with us also and  
8 it goes to the IRB. So everything essentially stays  
9 with us. Certain things may go to the IRB which would  
10 be pertinent.

11 Q. Do the materials that go to the IRB also go to the  
12 FDA?

13 A. No.

14 Q. Okay. So that goes just to the IRB?

15 A. That is correct.

16 Q. Okay. So if there was an adverse event that occurred  
17 during the clinical study, you would send that  
18 information to the IRB but you do not send it to the  
19 FDA?

20 A. That is correct.

21 Q. You had mentioned a couple of times that some of your  
22 studies have been I think you describe it as  
23 investigator-initiated studies?

24 A. Yeah.

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1 Q. And just so I'm clear on that, that's a study that  
2 you, for example, have initiated as opposed to one of  
3 the manufacturers?

4 A. That is correct.

5 Q. Okay. And do you have a preference for one over the  
6 other?

7 A. I usually prefer an investigator-initiated study  
8 because then I control the outcome. The bias factor  
9 is much lesser because it is not a company-sponsored  
10 trial, and, you know, there's always an element of  
11 bias when there is a company-sponsored trial as  
12 opposed to an investigator-initiated study.

13 But the study that we typically favor or I  
14 typically favor which is not even investigator  
15 initiated such as the one that I mentioned about the  
16 MiniArc study which I completely manage it. It's not  
17 sponsored by any company and we do it ourselves, so  
18 then the potential risk of bias is the least and since  
19 it's not being funded by any particular company with  
20 vested interest.

21 Q. And that's because in your view, it would not be  
22 appropriate to have a vested interest in the outcome  
23 of the study?

24 A. It is just a bias that is generated, and sometimes you



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1           have to put it in. Most investigator-initiated  
2           studies or sponsored studies are very ethical studies,  
3           but, unfortunately, it always comes with a bias, that,  
4           okay, this was sponsored by this company, so maybe the  
5           results are more favorable to that company.

6                       However, if it is not, then it gives the  
7           study a little more authenticity and gives me that  
8           little more additional armamentarium to put in that  
9           additional sentence which states that this was not a  
10          sponsored study and so maybe looks more authentic.

11       Q.    Okay. And if it's not a manufacturer-sponsored study,  
12           do they still reimburse you for certain expenses and  
13           things?

14       A.    No, they do not.

15       Q.    Okay.

16       A.    They are not even aware that I'm doing the study.

17       Q.    Okay. And on the TVT-Secur study that we talked about  
18           earlier today, you had mentioned that there were I  
19           think you had said some reimbursements from Johnson  
20           and Johnson, is that correct?

21       A.    So there were essentially three studies that I was  
22           involved with with the TVT-Secur.

23       Q.    Okay.

24       A.    The first was the initial clinical trial which was

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1 completely conducted by Ethicon.

2 The second paper that I published was our  
3 own data which was not sponsored by anybody, and the  
4 third paper which was the TVT-Secur in-office that I  
5 think you're alluding to, that was an  
6 investigator-initiated study which was sponsored by  
7 Ethicon.

8 Q. Okay. So an investigator-initiated study can also be  
9 sponsored by a manufacturer?

10 A. So the investigator-initiated studies are all  
11 sponsored. So it is initiated by the investigator.  
12 They submit the proposal to the company, and if the  
13 company feels that it is a good study from the  
14 clinical standpoint, from the research standpoint,  
15 then they accept it. So once they accept it, that  
16 means they are willing to fund the expenses of that  
17 study.

18 Q. Okay. And if an investigator study is sponsored by  
19 the manufacturer, is there some communication with the  
20 manufacturer then with respect to the end points for  
21 that study?

22 A. Yes. Usually, for example, with the Exair study, they  
23 wanted to know where did they stand, how much is the  
24 enrollment, are we keeping our time lines. So if I

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1           said that maybe by the end of December, we should  
2           finish enrollment, then I would be fine, I'd be  
3           sticking to the time lines.

4                       So it's a very loose connection. It's not  
5           that absolutely we have to do something based upon  
6           what they want, but it's tracking what am I doing.  
7           I'm not just -- it's not that the study's stopped and  
8           we're doing nothing about it. We just want to make  
9           sure we're still continuing to maintain the time line  
10          that I had proposed.

11       Q.    So you do have some periodic reporting obligations to  
12           the company during a study of that nature?

13       A.    Yes.

14       Q.    Okay. I know you have some opinions that we'll get to  
15           in a little bit with respect to porosity of mesh.

16                       Have you conducted any studies that are  
17           specific to the porosity issues?

18       A.    No, I have not.

19       Q.    Have you published any peer-reviewed literature with  
20           respect to, specifically with respect to porosity of  
21           pelvic mesh?

22       A.    No, I have not.

23       Q.    Have you conducted any studies with respect to  
24           degradation of pelvic mesh?

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1 A. No, I have not.

2 Q. And have you published any studies specific or, I'm  
3 sorry, published any articles specific to degradation  
4 of pelvic mesh?

5 A. No, I have not.

6 Q. Have you conducted any studies specific to the  
7 flexibility or stiffness of pelvic mesh?

8 A. No, I have not.

9 Q. Have you published any articles specific to  
10 flexibility or stiffness of pelvic mesh?

11 A. I have not specifically stated or published a paper on  
12 flexibility or as you mentioned porosity.

13 However, in my Prolift+M paper that I had  
14 published, I did mention about the change in the  
15 porosity and the weight that happens with the  
16 Prolift+M as it -- as part of the mesh disappears or  
17 it's absorbed which is the Monocryl component of the  
18 Prolift+M. And from the -- I believe there was some  
19 mention in the discussion about the flexibility of  
20 that, of the Prolift+M mesh that I had mentioned.

21 Q. Okay. Have you done -- have you published any papers  
22 that discuss the flexibility or stiffness of TVT or,  
23 actually, strike that, of an SUI product?

24 A. Could you explain?

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1 Q. Sure. I'll rephrase that.

2 Have you done or published any articles  
3 with respect to flexibility or stiffness in a  
4 midurethral sling?

5 A. So if you are specifically asking whether I've done  
6 anything to see the tension strength and the measuring  
7 of the weights and things like that, I have not.

8 Q. Okay. Are you familiar with the phrase 510(k)  
9 submission?

10 A. Yes, I have.

11 Q. Okay. Have you participated in submissions or  
12 assembly of materials for a 510(k) submission?

13 A. No, I have not.

14 Q. And you have not authored any peer-reviewed articles  
15 with respect to 510(k) submissions?

16 A. That is correct.

17 Q. Have you ever worked on the design of pelvic mesh  
18 products?

19 A. Yes, I have.

20 Q. Okay. And in what context have you worked on the  
21 design of the products?

22 A. There is a modification of a particular mesh system  
23 that I made so as to eliminate a passage of a trocar,  
24 and I submitted the drawings to the company.

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1 Q. Is that -- I think I had read that you have a patent  
2 on a product.

3 Is that the product?

4 A. No. That's a different product.

5 MR. WALKER: And I just want to make sure,  
6 you know, you don't have to divulge anything that's  
7 proprietary or otherwise confidential, okay?

8 THE WITNESS: Okay.

9 BY MS. FLAHERTY:

10 Q. You had mentioned that you had submitted some drawings  
11 to a company regarding the trocars, was that correct?

12 A. Yes.

13 Q. Okay. And was that company Ethicon?

14 A. No, it was not.

15 Q. Okay. Can you state which company that was?

16 A. It was Coloplast.

17 Q. Coloplast.

18 And do you know, have you submitted a  
19 patent application?

20 A. Yes, I have.

21 Q. Okay. What is the status of the patent application?

22 A. It is in its provisional patent state.

23 Q. Okay. Do you know -- I will admit I am not familiar  
24 with the patent process, but do you know approximately

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1           how long that process takes?

2       A.    I can hold the provisional patent for a year, and we  
3           have just been extending it to see that whether I need  
4           to file the final patent or do I just give up the  
5           patent.

6       Q.    Okay. And how many years have you held that?

7       A.    Now it's two years.

8       Q.    Two years.

9                       Have you ever conducted any studies on  
10           polymers?

11      A.    No.

12      Q.    Have you authored any peer-reviewed articles specific  
13           to polymers?

14      A.    No, I have not.

15      Q.    Have you done any bench research specific to  
16           polypropylene?

17      A.    No, I have not.

18      Q.    Have you performed any explants or revisions of pelvic  
19           mesh products?

20      A.    Yes, I have.

21      Q.    Do you know approximately how many revisions or  
22           explants you've performed?

23      A.    Anything specific or just overall?

24      Q.    Let's start with overall, and we can break it down

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1 from there.

2 A. Maybe about twenty-five.

3 Q. And just so we're clear, does that include what I  
4 would call a trimming that might happen in the office  
5 under a local anesthesia, or is that only a surgical  
6 procedure with general anesthesia?

7 A. That includes any explants, whether it's in the office  
8 or in the operating room. That includes whether the  
9 mesh was used for a sacrocolpopexy or whether it was  
10 used for a vaginal prolapse. That includes whether a  
11 sling was used for incontinence, and that's includes  
12 any possible sling or mesh, whether it is Ethicon or  
13 non-Ethicon, and that also includes suture such as  
14 Prolene suture that could be sticking into the vagina.

15 Q. Okay. And when you conduct those explants, do you do  
16 any sort of microscopic evaluation of the mesh that  
17 you remove?

18 A. I do not, but sometimes -- I am not sure if I've done  
19 that, but I may have sent it for pathology.

20 Q. So you send it on to somebody else to handle the  
21 pathology, is that correct?

22 A. If I did that, yes.

23 Q. Okay. Do you have a degree in epidemiology?

24 A. I do not.



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1 Q. Is it fair to say you would not call yourself an  
2 expert on epidemiology?

3 A. Yes.

4 Q. Okay. Why don't we take just a five-minute break.

5 A. Sure.

6 (Off the record at 10:27 a.m.)

7 (Back on the record at 10:40 a.m.)

8 BY MS. FLAHERTY:

9 Q. Okay, Doctor. We're back on the record, and I want to  
10 switch gears a little bit and talk about your  
11 treatment of patients with urinary stress  
12 incontinence.

13 And I think you had mentioned was it  
14 roughly twenty to twenty-five percent of your patients  
15 have urinary stress incontinence, is that correct?  
16 Did I get that correct?

17 A. That is correct.

18 Q. Okay. And is it fair to say that for at least some of  
19 these patients, their incontinence is a quality of  
20 life issue for them?

21 A. Most patients who come to see us usually do that for  
22 that particular reason, it is bothering them, and very  
23 few would come in just because they've been sent by  
24 their physician. But most of them would come for

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1           quality of life issues.

2       Q.    Okay. And you use midurethral slings for treatment of  
3           SUI, is that correct?

4       A.    Yes, I do.

5       Q.    And you also have some other surgical procedures that  
6           you use for treatment of SUI, is that correct?

7       A.    Yes, I do.

8       Q.    And what are those other surgical procedures?

9       A.    I predominantly use, if it is a surgical intervention,  
10           I predominantly use a midurethral sling, and, of  
11           course, there are different types of midurethral  
12           slings.

13                               However, if it is a patient who has  
14           restricted mobility of the urethrovesical junction,  
15           then I would use a bulking procedure called  
16           transurethral injection of Macroplastique.

17       Q.    Okay. Any other surgical interventions that you would  
18           do?

19       A.    For stress incontinence, essentially those are the two  
20           main procedures that I would do.

21       Q.    And are there some nonsurgical procedures that you  
22           would also try?

23       A.    Yes.

24       Q.    And what are those?

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1       A.     First of all, we would start with behavioral  
2             modifications just like as I was mentioning, caffeine  
3             elimination so as to decrease the amount of urine  
4             production.

5                     The second would be timed voiding.  
6             Sometimes the patient may be holding her bladder for  
7             over four to five hours, and then when she sneezes,  
8             she may leak because her bladder is too full. So all  
9             she needs to do is go to the bathroom every three  
10            hours. So that's timed voiding.

11                   Fluid management. They could be drinking a  
12            lot of water as part of let's say weight loss, and  
13            that could be creating a deluge in the bladder and the  
14            blader may be filling up very fast, and that could  
15            overpower the urethra. So then amount of fluid  
16            control, restricting fluids to about sixty to  
17            sixty-five ounces a day.

18                   So timed voiding, fluid management,  
19            elimination of caffeinated beverages, pelvic floor  
20            exercises with a pelvic floor training system that we  
21            have at our office. So these are the main things that  
22            we always talk to our patients prior to embarking onto  
23            a surgical intervention.

24       Q.     Okay. Do you also recommend the use of pessaries from

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1 time to time?

2 A. Very rarely would I use pessary exclusively for stress  
3 urinary incontinence.

4 Q. And why is that?

5 A. That is, first of all, because it's very incumberent.  
6 Number two, the success is not very high. Number  
7 three, most patients do not like using a pessary for  
8 that reason. So that's predominantly it.

9 I would typically use it in a patient who  
10 would tell me that she has extremely sporadic stress  
11 incontinence, only if she is playing golf would she  
12 leak. I'd say, okay, you can consider this, or a  
13 woman who is desirous of getting pregnant. Then if we  
14 tried everything else and finished pelvic floor  
15 therapy, it's not working, then I would go on to  
16 considering an incontinence ring pessary.

17 Q. Okay. With respect to the surgical treatment options,  
18 is an anterior -- I may not pronounce this  
19 correctly -- is it colporrhaphy?

20 A. Colporrhaphy.

21 Q. Yeah. Colporrhaphy.

22 A. That's right.

23 So an anterior colporrhaphy is not a  
24 surgical procedure for stress incontinence management.

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1 Q. Okay. Is a Burch colposuspension?

2 A. Yeah. You can just say Burch procedure.

3 Q. Okay.

4 A. Burch procedure is a surgical intervention for  
5 incontinence.

6 Q. Okay.

7 A. Stress incontinence.

8 Q. Do you utilize the Burch procedures?

9 A. Not at the moment.

10 Q. Okay. Have you used Burch procedures in the past?

11 A. Yes, I have.

12 Q. Okay. Do you know how many Burch procedures you have  
13 done in the past?

14 A. Probably about three hundred or so.

15 Q. When was the last time you did a Burch procedure?

16 A. Almost about ten years ago.

17 Q. Did you stop doing Burch procedures about the time you  
18 started using midurethral slings?

19 A. Yes, I did.

20 Q. Is needle suspension surgery a surgical treatment  
21 option for urinary stress incontinence?

22 A. It has been reported as a surgical procedure for  
23 stress incontinence.

24 Q. Okay. Have you used this procedure for urinary stress

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1 incontinence?

2 A. Typically the needle procedure is like the Raz, R-A-Z,  
3 or the Pereyra, P-E-R-E-Y-R-A, procedures, and if that  
4 is what it is, then, no, I have not used it.

5 Q. Is a Stamey procedure also a needle suspension  
6 procedure?

7 A. Yes.

8 Q. Have you used the Stamey procedure?

9 A. I have not.

10 Q. And I just want to clarify. On page fourteen of the  
11 TVT and TVT-O report, I'll let you get to that.

12 A. Should I put this away?

13 Q. You can keep it close, but we don't need it right this  
14 minute.

15 A. Okay. Yes.

16 Q. And do you see where it says surgical treatment for  
17 urinary stress incontinence, probably in the top third  
18 of the page?

19 A. Yes.

20 Q. And the first item listed is anterior --

21 A. Colporrhaphy.

22 Q. Correct.

23 A. Yeah.

24 Q. Is the anterior colporrhaphy -- I cannot say it.

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1 A. Anterior repair.

2 Q. Anterior repair. Thank you.

3 So just to clarify, you said that is not a  
4 surgical treatment for urinary stress incontinence?

5 A. That is correct.

6 Q. Okay.

7 A. However, what they are probably alluding to is what is  
8 often called an anterior colporrhaphy with Kelly  
9 plication.

10 Q. Okay.

11 A. So Kelly plication is where a suture is placed at the  
12 bladder neck, and that is -- that was one of the main  
13 operations for stress incontinence at that time, so  
14 probably in the forties to the sixties, and Howard  
15 Kelly who was considered the father of urogynecology  
16 devised this particular technique.

17 However, nobody else could enjoy great  
18 results with this, so it gets lumped around with  
19 anterior colporrhaphy. Anterior colporrhaphy per se  
20 is a procedure for anterior vaginal wall prolapse, not  
21 incontinence.

22 Q. Okay. And you had indicated that they used it.

23 I just want to -- who are you referring to  
24 as they?

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1 A. Gynecologists.

2 Q. Okay. Gynecologists during that time period?

3 A. Yes.

4 Q. Okay. And have you ever used the anterior repair with  
5 Kelly plication?

6 A. Yes, I have.

7 Q. Okay. Do you still use that procedure?

8 A. I do perform anterior colporrhaphy for vaginal wall  
9 prolapse, but I do not do a Kelly plication.

10 Q. Okay. And the Kelly plication would come in if there  
11 was urinary stress incontinence?

12 A. That is correct.

13 Q. Okay. And just an overview of the nonsurgical  
14 treatments for urinary stress incontinence, you talked  
15 about pelvic floor muscle therapy which you offer in  
16 your office?

17 A. Yes, I do.

18 Q. And the pessaries?

19 A. Yes.

20 Q. And behavior modification, and that included things  
21 such as limiting caffeine, timing of voiding, is that  
22 correct?

23 A. That is correct.

24 Q. Okay. And then also the bulking agents?



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1 A. Yes.

2 Q. Are there any other nonsurgical options that you  
3 recommend with respect to treatment of urinary stress  
4 incontinence?

5 A. Yes. I do also based upon sometimes weight, if a  
6 patient is obese, then I would recommend that weight  
7 loss has clearly been shown to improve incontinence.  
8 So that's something I would recommend and also things  
9 like smoking cessation because smoking can cause  
10 several factors, especially coughing would increase  
11 the risk of the pelvic floor and stress incontinence.  
12 So depending on what is the patient's medical history,  
13 then I go by that.

14 Sometimes patients are taking medications  
15 such as lisinopril which is classic medication for  
16 high blood pressure. That medication causes a side  
17 effect of coughing, and then if they're taking that  
18 and they're coughing, that could be causing stress  
19 incontinence.

20 Sometimes patients have it because of  
21 weight or neck issues, they may be snoring, and they  
22 may have something called obstructive sleep apnea, and  
23 if they have that, then it's almost like straining  
24 when you're obstructing, so they may be leaking urine.

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1           So what they may need instead of getting a sling is  
2           just a CPAP machine, and that could take care of the  
3           leakage.

4                       So there are many factors based upon the  
5           medical history of the patient that I may be  
6           addressing that could help with the incontinence. It  
7           could also be that she may be taking a diuretic, and  
8           we may just have to change the timing of the diuretic.

9       Q.    Okay. And so to summarize, it sounds like you have a  
10           conversation or it's your usual practice to have a  
11           conversation with your patients and examine a variety  
12           of factors with respect to their urinary stress  
13           incontinence, is that correct?

14     A.    Yes. So what we do is we give the patients several  
15           validated questionnaires and a history form which is  
16           almost like a little booklet as they complain because  
17           it's a lot of forms that they have to fill out, but it  
18           is extremely helpful to us to understand what exactly  
19           is their overall perspective that they may not even  
20           have realized could impact their complaint.

21                       And when we look at those aspects and the  
22           history and review everything with the patient and  
23           then we have this conversation with the patient, then  
24           we can appropriately come to proper management

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1 options.

2 Q. Okay. And during that conversation, is it your usual  
3 practice to have a conversation or a discussion with  
4 the patients regarding the risks and benefits of the  
5 various options?

6 A. Yes.

7 Q. Okay. What percentage of your SUI patients require  
8 surgical intervention?

9 A. I would say in between seventy-five to eighty percent,  
10 but, you know, it's hard to say. This is just a guess  
11 because I have not really studied that and seen how  
12 many patients actually go for surgery because our  
13 typical, our typical course when we see a patient with  
14 stress incontinence is we go over all these things,  
15 and then we leave it to the patient to decide based  
16 upon the risk-benefits profile and what she feels is  
17 the best option for her. So she may choose surgery or  
18 she may choose otherwise.

19 Q. Sure.

20 A. And so then we respect what their decision is based  
21 upon what we think would also be good for her.

22 Q. Understood.

23 And with respect to the surgical repair or  
24 surgical treatment of SUI, is it fair to say that the

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1 majority of your surgical repairs at this point in  
2 time involve a midurethral sling?

3 A. Yes.

4 Q. Okay. And I believe your report had broken down, I  
5 think it says you had performed maybe one thousand or  
6 so surgical repairs with respect to SUI over the  
7 course of your career?

8 A. Yes.

9 Q. And I think there were roughly three hundred of those  
10 that were TVT-Secur.

11 Does that sound about right? I probably  
12 have the number. I can find it in your report. Let's  
13 see if I can find the page.

14 A. It's a hundred TVTs, four hundred TVT-O, and three  
15 hundred TVT-Secur.

16 Q. One hundred TVT, four hundred TVT-O, three hundred  
17 Securs?

18 A. Yes.

19 Q. So that's roughly eight hundred sling procedures?

20 A. Roughly.

21 Q. At least with Ethicon products?

22 A. Correct.

23 Q. And with respect to the other approximately two  
24 hundred surgical procedures, what percentage of those

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1 involve other types of midurethral slings?

2 A. Almost all of them were other types of midurethral  
3 slings.

4 Q. Okay. Aside from the TVT, TVT-O, and the Secur, what  
5 other types of pelvic mesh slings do you use?

6 A. Suburethral slings?

7 Q. Yes.

8 A. I have done the MiniArc suburethral sling and the  
9 Solyx, S-O-L-Y-X.

10 Q. Is Solyx a Boston Scientific product?

11 A. Yes.

12 Q. Do you still use the MiniArc and Solyx?

13 A. MiniArc is no longer available, and I still use the  
14 Solyx.

15 Q. Okay. And is Solyx a retropubic transobturator  
16 approach?

17 A. It is a single-incision sling.

18 Q. Okay. And the TVT-Secur was a single-incision sling,  
19 wasn't it?

20 A. That is correct.

21 Q. Did you switch to the Solyx after the TVT-Secur was no  
22 longer available?

23 A. I switched to the MiniArc which is a single-incision  
24 sling.

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1 Q. Yes.

2 A. So I have maintained the single-incision sling as part  
3 of my practice. That's my primary surgical  
4 intervention.

5 Q. Okay. And so you went from the Secur, when that was  
6 no longer available, you went to the MiniArc. When  
7 that was no longer available, you went to the Solyx?

8 A. That is correct.

9 Q. Okay. And you've done about four times as many TVT-O  
10 procedures as opposed to TVT.

11 Is that because of the approach that is  
12 used with the TVT-O procedure?

13 A. It is just the timing. So when the TVT initially came  
14 out, I was still in my fellowship, and I was doing the  
15 Burch colposuspensions. Then we were doing a study on  
16 laparoscopic Burch colposuspensions. So we were  
17 focusing more on that, and this was around the late  
18 1990s.

19 And then very shortly thereafter, I believe  
20 it is 2007 or 2008 when -- 2011 when the TVT-O came  
21 out. So I immediately, I was one of the first persons  
22 who started using it because I had trained in France,  
23 same place where Jean Delavalle had, he was from  
24 Belgium, but his associate, Doctor Jacques Thayer, was

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1 in the same hospital.

2 So I had contacted him and he had advised  
3 me this is a very good technique to perform, it goes  
4 along the natural fascial supports of the urethra  
5 which John Delancey from the University of Michigan  
6 had described as the hammock hypothesis. So it  
7 sounded to be more of a natural support for the  
8 urethra because that's where it's coming from.

9 So I thought that might be a good option to  
10 go by, and once I started doing it, I somehow starting  
11 having good results. I continued doing the  
12 transobturator procedure.

13 Q. Okay. And just so the record is clear, I suspect both  
14 know and I know what we're talking about,  
15 transobturator mesh is the TVT-O?

16 A. That is correct.

17 Q. Okay. And TVT is the retropubic approach?

18 A. That is correct.

19 Q. Okay. Now, in your TVT and TVT-O report, you indicate  
20 that the retropubic approach offers a slight advantage  
21 over the transobturator approach in terms of cure  
22 rates. That's on page twenty-three of your report.

23 A. Which paragraph?

24 Q. Let's see. The second paragraph on page twenty-three.

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1           It starts with: Overall, these data suggest that the  
2           retropubic approach.

3       A.    It has, yes.

4                       I'm sorry. What's the question?

5       Q.    Sure. Is it your opinion that the retropubic approach  
6           has a slight advantage in terms of objective cure  
7           rates over the obturator approach?

8       A.    No.

9       Q.    Okay. So is that -- I just want to make sure I  
10          understand that statement in your report.

11                    That's not your opinion. Is that just a  
12          summary of the data that you were reviewing?

13       A.    Yes.

14       Q.    Okay. And then the next sentence states that --

15       A.    Could I clarify?

16       Q.    Sure.

17       A.    This data essentially states that the retropubic  
18          approach offers a slight advantage over the  
19          transobturator approach in terms of objective cure  
20          rate.

21                    So we look at overall cure rate and the  
22          subjective cure rate, there was no difference, but in  
23          certain studies, the objective cure rate may have been  
24          slightly better with the retropubic than with the



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1 TVT-Secur.

2 Q. Okay. And how do you distinguish between the  
3 objective cure rate and the subjective cure rates?

4 A. So the subjective cure rate is essentially what the  
5 patient states. Usually that is conducted through  
6 validated questionnaires that they fill out before and  
7 after.

8 The question could be in a validated form  
9 do you leak urine with coughing, laughing, or  
10 sneezing, and she may have said yes or no, and how  
11 bothersome is that, and she may have mentioned yes  
12 initially and she may have said greatly bothersome.

13 Postoperatively the same question is asked,  
14 do you leak with laughing, coughing, and sneezing, and  
15 now she may say no, so then that's a subjective  
16 change. So you say how many patients said yes, how  
17 much patients say no, and look at what the difference  
18 is, and then you can see the percentage change in that  
19 particular subjective questionnaire. In some studies  
20 they may just ask the patients how are you doing. So  
21 it all depends on how the question is formatted.

22 Objectively, typically it is a cough test  
23 which is usually done at a standard amount of bladder  
24 fullness or when the patient feels subjectively full,

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1 or it could be in the form of a pad weight test. So  
2 preweighed pads are given to the patient. She walks  
3 around either for an hour, she changes it, or for a  
4 day, and then she puts it back in a Ziploc bag and  
5 brings it back to the office, and then we weigh it and  
6 we see what is the difference in the weight in grams,  
7 and based upon the difference, we can state that this  
8 is successful or not.

9 Q. Okay. And so to summarize that, there's a functional  
10 component of the analysis as well as perhaps the  
11 patient's interpretation or quality of life view with  
12 respect to the results as well?

13 A. So functional, yes.

14 Q. Okay. And this goes on then to state that the two  
15 approaches have different adverse effect profiles but  
16 with the retropubic approach or with -- I'm sorry --  
17 with the retropubic approach causing a higher rate of  
18 perioperative complications.

19 Has that -- is that your opinion that the  
20 retropubic approach has a higher rate of perioperative  
21 complications?

22 A. No.

23 Q. Okay. Do you -- in your opinion is there a difference  
24 between the retropubic and transobturator approaches

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1 with respect to complications?

2 A. There's no difference.

3 Q. And what is the basis for that?

4 A. The subsequent studies that I've quoted, especially by  
5 Tommaselli, T-O-M-M-A-S-E-L-L-I, and Ford, F-O-R-D.

6 So they have basically looked at this and shown that  
7 ultimately there is no significant difference. The  
8 numbers are very similar. Whether it is bladder  
9 injury you're looking at or voiding dysfunction or  
10 pain, they're very similar.

11 And that also, these are good studies which  
12 are published in the literature, plus my own  
13 experience having done the TVT and having done the  
14 TVT-O, I've seen that there is really nothing that  
15 stands out.

16 Q. Do you -- after your patients have a surgical  
17 procedure, specifically a midurethral sling, do they  
18 continue to treat with you after, after that procedure  
19 and perhaps after the initial recovery period?

20 A. We have a very strict format in our office because we  
21 do clinical trials. So whether patients are part of a  
22 clinical trial or not, we almost always insist at the  
23 presurgical appointment that the patients need to  
24 follow up, and we tell them that there's a certain

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1 period of follow-up. Usually it's at six months  
2 postoperative, one year postoperatively, and maybe  
3 then two years either on the phone or at the office.

4 And we do not charge for these visits. So  
5 this is more to see how are these patients doing and  
6 for us to understand what is the long-term outcome and  
7 how these patients have been doing ongoingly.

8 Q. Okay. And if the patients don't follow up, do you  
9 reach out to them to try to get them back into the  
10 clinic?

11 A. Yes.

12 Q. And I know you had mentioned again the clinical  
13 studies.

14 Do you have a sense for what percentage of  
15 your patients are part of a study versus what percent  
16 are coming to see you outside the scope of one of your  
17 studies?

18 A. We try to almost put everybody in some kind of a  
19 clinical study or preparing for a clinical study. So  
20 she may not be enrolled in a clinical study for now,  
21 but we may use her data in another study which could  
22 be a study done postoperatively, almost like a  
23 retrospective study. So if it is a retrospective  
24 analysis, as long as the data is prospectively or

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1 properly collected, then we can fall back on that data  
2 in the future.

3 Since I have a fellowship and, you know,  
4 the fellows are obliged to come up with papers, it is  
5 important to continue to keep publishing. So it is  
6 good to collect the data. We never know when the data  
7 would be useful. Just like when in 2008 the FDA came  
8 out with the initial warning and said that this may be  
9 a problem, we had enough data to fall back on and see  
10 our other clinical trial and see what was our  
11 outcomes.

12 So just like what MDS proposing to talk to  
13 the patient about your outcomes, we can now  
14 knowledgeably talk to our patients about our own  
15 outcomes and tell them what are the facts.

16 Q. Will you treat patients if they aren't part of a  
17 clinical study or decline to be part of a clinical  
18 study?

19 A. Yes. So, again, I'm sorry. Most patients, they're  
20 not all part of a clinical study, but we try to get  
21 all the papers.

22 So if a patient were to say I do not want  
23 to fill the forms out, we try to explain to them the  
24 value of that for themselves and for women at large,

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1           and if they still decline, then we will still manage  
2           them.

3       Q.     Sure.

4                       And if you use it in -- if you use the data  
5           in a retrospective analysis, is that something you  
6           have to go back to the patients and gather their  
7           consent, or is there a different process for that?

8       A.     For that we do not have to get a consent.  It's a  
9           chart review.  As long as we have the information in  
10          the chart, we can just review the chart, and the  
11          patient's information is, of course, blinded.

12      Q.     So they wouldn't necessarily know it's being used for  
13          that purpose later, but their individual identifying  
14          data is not shared?

15      A.     Correct.

16      Q.     Okay.  Do you -- I think you had said you have done  
17          maybe just twenty to twenty-five surgical repairs of  
18          mesh that was previously implanted, is that correct?

19      A.     Explants.

20      Q.     Explants?

21      A.     Yes.

22      Q.     Are there other types of surgical repair that you  
23          might do for mesh?

24      A.     Yes.

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1 Q. And can you describe that for me, please?

2 A. If I've done, for example, one wall mesh and then the  
3 contralateral wall falls down, then I may go back and  
4 repair the contralateral wall. So it is recurrence of  
5 the contralateral wall prolapse or recurrence of the  
6 treated wall prolapse.

7 For stress incontinence, it could be that  
8 I've performed a sling on a patient, and now she has  
9 ongoing stress incontinence. Then I may go in and do  
10 a modification of that sling or put another sling in.  
11 So those are the typical things I've done.

12 In the past I've also done where the sling  
13 was too tight, then I had to release the sling. So  
14 these are procedures that could be done for different  
15 reasons.

16 Q. Okay. And do you have occasion to treat patients that  
17 were implanted by other physicians that may now have  
18 some complications with respect to their mesh?

19 A. Yes.

20 Q. Okay. And would those patients be included in the  
21 explant procedures that you just described?

22 A. Yes.

23 Q. Okay. Are there patients that actually -- strike  
24 that.

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1                   In the explant procedures, were you able to  
2           remove all of the mesh?

3     A.    I have never had to remove all of the mesh.

4     Q.    Okay.

5     A.    Ever.

6     Q.    Okay.  Would you agree that dyspareunia is a  
7           complication that's been reported with respect to both  
8           the transobturator and retropubic slings?

9     A.    I do not agree that dyspareunia is a cause of the or  
10          as an outcome of the sling, but it has been reported  
11          in papers published on slings.

12    Q.    Okay.  And is it your opinion that the dyspareunia is  
13          caused by something other than the sling?

14    A.    Yes.

15    Q.    Okay.  And what in your view causes the dyspareunia?

16    A.    There are many factors.  One key thing to note is did  
17          the patient have -- is it de novo dyspareunia or is it  
18          ongoing dyspareunia.  So for that it is very important  
19          to document whether the patient had this before a  
20          procedure was done, whatever that procedure could be.  
21          So that's important.

22                   Number two, she could have a condition  
23          called underlying pelvic pain syndrome.  There could  
24          be postmenopausal vaginal atrophy.  There could be



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1 previous surgical procedures done that could have  
2 resulted in scarring that could be causing pelvic  
3 pain.

4 There could be so many factors, it could be  
5 a male, female disparity, you know, and whether it's  
6 the same partner, different partner, whether it is  
7 psychological, nonpsychological. So there are so  
8 many, so many factors that could play a role in  
9 dyspareunia.

10 Q. Would you agree that erosion of the mesh can  
11 contribute to dyspareunia?

12 A. No. It does not contribute to dyspareunia. I  
13 disagree.

14 Q. So in your view, you would disagree with anyone that  
15 would associate dyspareunia with extrusion or erosion  
16 of mesh?

17 A. Yes, and I can explain why. It is the mesh where it  
18 is placed in the vagina, it's already placed. Whether  
19 the skin or the epithelium under that heals or remains  
20 open does not change the configuration of the mesh in  
21 the patient's body. It remains as is.

22 Many a times if there's an exposure, this  
23 could be managed expectantly. Fifty percent of the  
24 times the mesh exposure does not have any symptoms and

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1 does not need to be removed.

2 The typical complaint that I have seen  
3 patients come with mesh exposure is not dyspareunia.  
4 It is either vaginal spotting or more likely it is  
5 hispareunia, meaning he, her partner, feels something  
6 in the vagina that is sharp. And then if you feel  
7 this thing and, yeah, that is what is causing it, and  
8 then we may have to take care of that exposure.

9 But the patient almost never feels that as  
10 a cause of dyspareunia because it's already there.  
11 Whether the epithelium under that heals or not, it  
12 doesn't remove the mesh as such. So if it has healed  
13 below it and there is no exposure whereas if it's  
14 open, that doesn't make a difference from the point of  
15 view of the patient.

16 Q. And you have not analyzed any of the mesh material  
17 that has been removed from women in terms of any  
18 degradation or change in consistency of that mesh from  
19 a pathologic point of view, have you?

20 A. I have not analyzed mesh.

21 Q. Okay. And you would agree that groin pain is a  
22 complication that's been reported with respect to  
23 midurethral slings, is that correct?

24 A. Yes.

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1 Q. And you would distinguish between I think what your  
2 report refers to as transient versus chronic groin  
3 pain, is that fair?

4 A. Yes.

5 Q. And would you agree that a chronic pain is something  
6 that's going to have perhaps a more significant impact  
7 on a woman's quality of life?

8 A. Well --

9 MR. WALKER: Object to form.

10 THE WITNESS: Even a transient pain could  
11 have some impact on quality of life because even if  
12 it's there and it's hurting her, it's hurting her. So  
13 the only thing different between transient and chronic  
14 is chronic has been ongoing for quite some time.

15 Typically the definition varies what  
16 chronic pelvic pain or chronic groin pain may be, but  
17 usually it's attributed to usually lasting more than  
18 six months which is an ongoing process.

19 BY MS. FLAHERTY:

20 Q. Okay. Do you -- actually, strike that.

21 When we were talking about the surgical  
22 operations for SUI, just to step back, I think I  
23 forgot to ask you about this. Is another option the  
24 fascial sling?

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1 A. Yes.

2 Q. And that's different than a Burch procedure, correct?

3 A. That is correct.

4 Q. Okay. And have you performed any fascial sling  
5 procedures?

6 A. Yes, I have.

7 Q. Okay. Is that something that you utilize for certain  
8 patients?

9 A. Extremely rarely at this moment in time.

10 Q. Okay. And why is that?

11 A. It is too invasive to perform, especially if you're  
12 using an autologous fascial sling because you have to  
13 the harvest either the fascia lata, L-A-T-A, which  
14 comes from the side of the thigh, so you take a strip  
15 from the thigh and then put it under the urethra, or  
16 you harvest the rectus fascia which is from the lower  
17 belly and put it under the urethra. So it's a very  
18 involved operation for something that can be managed  
19 minimally invasively.

20 Q. And when you say that, you mean via the midurethral  
21 sling?

22 A. That is correct, synthetic midurethral sling.

23 Q. Yes. Do you use any biologic products for treatment  
24 of SUI?

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1 A. The only thing I would use is the Macroplastique, it's  
2 partly biodegradable, but not for a sling.

3 Q. Okay. And why is that?

4 A. Because the data that has been published on biologics  
5 has been very poor with significant failure rates, and  
6 I have overall been very happy with the use of  
7 midurethral slings using a synthetic material, and it  
8 has stood the test of time.

9 Q. I want to talk a little bit about training with  
10 respect to the pelvic mesh products, specifically the  
11 midurethral slings.

12 Your opinion indicates that you have and  
13 your testimony earlier today have indicated you've  
14 participated in quite a bit of training with respect  
15 to the various Ethicon sling products, is that  
16 accurate?

17 A. As a proctor or teacher?

18 Q. Yes.

19 A. Yes.

20 Q. And do you know about how many hours you have spent  
21 teaching or proctoring with respect to sling products?

22 A. Just the Ethicon you're talking about?

23 Q. Let's start with Ethicon.

24 A. I know that's way back. As I mentioned, I do not

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1 think I've done anything since 2008.

2 Q. Okay.

3 A. So it's way back, so it will be total conjecture for  
4 me to think about how many hours.

5 Q. And you've also done some proctoring with respect to  
6 other companies' mesh products, is that correct?

7 A. Yes.

8 Q. And we'll focus just on slings for right now.

9 A. Okay.

10 Q. And then did you mention earlier that you had trained  
11 in France with some doctors on midurethral slings?

12 A. Actually, I trained in operative laparoscopy, but the  
13 next hospital was the main hub of their French  
14 Urogynecology Society. So I met him, but I had not  
15 trained with him.

16 Q. Okay. Did you participate in any meetings or have the  
17 opportunity to maybe take advantage of having that  
18 proximity to that additional training?

19 A. Yes.

20 Q. Okay. And in addition to the proctoring, I assume  
21 before you did that, you probably attended some of the  
22 training sessions so that you yourself could learn  
23 about the implant process for the TVT products?

24 A. Yes.

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1 Q. And can you -- do you recall how much training you  
2 received prior to implanting your first TVT product?

3 A. You know, that will be way back. So it would probably  
4 be like 1990. So I don't even remember if my -- I  
5 think it was I was in my fellowship. Doctor Bent,  
6 B-E-N-T, was my fellowship director, and I believe he  
7 had just started doing the slings, and he was training  
8 me as his fellow.

9 Q. Okay. So did you also attend any cadaver training  
10 prior to implanting TVT products?

11 A. Yes, I did.

12 Q. Okay. And did you at some point while you were  
13 proctoring, did you -- was that also done in cadaver  
14 labs?

15 A. Yes.

16 Q. And did you also have occasions where other doctors  
17 could come in and observe you during surgical  
18 implantations?

19 A. Yes.

20 Q. And what other types of training did you conduct for  
21 doctors who were wanting to learn about the Ethicon  
22 midurethral slings?

23 A. You know, I was on their advisory board in the sense  
24 that if a doctor had any question, they could e-mail

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1 me or ask, call me and ask me specific questions in  
2 that regard. So I may have had a few calls from  
3 doctors in the field who were asking questions about  
4 what may have happened or how they could improve the  
5 process.

6 Then I used to go to the Ethicon-driven  
7 Summit meetings they would call it, and those were  
8 held annually, very good networking meetings where  
9 physicians would come together and we would brainstorm  
10 each other and there would be breakout situations, and  
11 I have sometimes led the TVT-Secur or the Prolift+M  
12 breakout session. But, again, these are physicians  
13 who are practicing, so then we would learn from each  
14 other.

15 Q. And in the advisory board, just so I'm clear, is that  
16 an Ethicon advisory board, or what type of board is  
17 that?

18 A. It's not an advisory board. It's just some physicians  
19 who they are main proctors, and they could bounce some  
20 questions by them. So if a physician had any  
21 question, they would ask the proctors.

22 So since I was one of the proctors, I had  
23 agreed to have doctors call me, especially doctors who  
24 had come to my site and trained with me or doctors who



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1 I had trained at cadaver lab, and they went out and  
2 started practicing and had some outstanding questions,  
3 I would field their calls.

4 Q. Do you recall, how long did you serve in that  
5 capacity?

6 A. I was open to them, so there's no set rule, there is  
7 no financial agreement to do that. It was just a  
8 courtesy for my colleagues so if they had to call me,  
9 they could call me any time.

10 Q. Okay. And the Ethicon-driven Summit meetings, is that  
11 what they were called?

12 A. Yes.

13 Q. And those were annual meetings for physicians?

14 A. Yes.

15 Q. And then were there Ethicon representatives there as  
16 well that could answer questions regarding the various  
17 products?

18 A. Yes, but it was mainly aimed at physician interaction,  
19 physician-to-physician interaction.

20 Q. Okay. And did those occur at various locations each  
21 year?

22 A. Yes.

23 Q. Okay. And did you prepare materials for those Summit  
24 meetings?

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1 A. Yes.

2 Q. And are those materials that you would then present or  
3 share with the other physicians that were attending?

4 A. Yes.

5 Q. And did Ethicon have any role or did you -- did they  
6 review any of those materials that you prepared for  
7 the Summit meetings?

8 A. No.

9 Q. Do you still have copies of the materials that you  
10 would have used?

11 A. No.

12 Q. Were you paid for any of your time at the Ethicon  
13 Summit meetings?

14 A. Yes.

15 Q. Do you have any invoice or other documentation  
16 regarding the compensation you would have received  
17 during that time?

18 A. No. Again, this was probably on the 2004 to 2006 time  
19 frame.

20 Q. Okay. And is it fair to say that that information  
21 would or at least should be included in the 1099s that  
22 you've received over the years from Ethicon?

23 A. Yes.

24 Q. We've been talking lots about the three different mesh

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1 products, and I just want to confirm.

2 With respect to TVT and TVT-O, is it your  
3 opinion, Doctor, that the mesh is the same, the  
4 approach is different but the mesh itself is the same?

5 A. It may have been changed. Some slings are cut  
6 mechanically, one is laser cut, you know, so that may  
7 be different. But otherwise it's essentially the  
8 same.

9 Q. And with respect to the laser cut versus mechanical  
10 cut, do you have a preference for which one you use  
11 during your procedures?

12 A. No, I do not.

13 Q. Do you make a request to have laser cut versus  
14 mechanical cut?

15 A. No, I do not.

16 Q. Okay. And do you know what percentage of the mesh you  
17 use is mechanical versus laser cut?

18 A. Well, now I believe -- I don't know what the present  
19 mesh is on the sling is, but I believe that it is cut,  
20 almost all are laser cut, but the TVT-Secur that I  
21 used finally was a laser-cut mesh.

22 Q. And we talked a little bit about you had attended  
23 cadaver lab and I think some other proctor session.

24 Was there any other training that you

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1 received prior to implanting the TVT devices?

2 A. The TVT-Secur I had to go to cadaver lab at Ethicon  
3 because it was the first time that they were launching  
4 this. So that was the -- and then that was the only  
5 thing. No, I have not gone to anybody else to train.

6 Q. Okay. So on the TVTs and the TVT-Os, what was the  
7 training that you received prior to implanting those  
8 devices?

9 A. TVT was most likely with my fellowship director,  
10 Doctor Bent, and the TVT-O, I don't recall if I went  
11 anywhere. I know I went to a cadaver course, but I'm  
12 not sure if I went to -- I think 2002 I believe. I  
13 don't even remember where I went, if I went to someone  
14 to watch him or her operate.

15 Q. Prior to using the TVT and the TVT-O, were you using  
16 other manufacturers' midurethral slings?

17 A. I don't think there existed any. No, I was not.

18 Q. So the first midurethral sling you would have used  
19 would have been the TVT?

20 A. Synthetic one, yes.

21 Q. Were you required to observe a certain number of  
22 procedures before you were able to implant a synthetic  
23 midurethral sling?

24 A. Since I was already doing it as part of

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1           sacrocolpopexies, we were already using synthetic  
2           material for prolapse. So that was part of my  
3           training.

4                       And then as part of my fellowship, I was  
5           already being trained to using the TVT product.

6       Q.    So there wasn't a certain number of procedures you  
7           were required to observe?

8       A.    Yeah, I don't recall any such number.

9       Q.    Did you assist in drafting any of the training  
10           materials that Ethicon used to train other physicians  
11           in the use of synthetic midurethral slings?

12      A.    Yes, I did.

13      Q.    Okay. And what was your role in drafting those  
14           materials?

15      A.    It was a surgeon monogram that we put together for the  
16           TVT-Secur. So we were -- so people who had enough  
17           experience with the TVT-Secur and had good results  
18           were invited to participate in this meeting, and when  
19           we got together, we fielded some potential concerns  
20           and questions that Ethicon may have heard from  
21           physicians.

22                       And having done several of these, we could  
23           understand where these concerns were coming from, and,  
24           therefore, we tried to come up with certain set

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1 guidelines to help surgeons improve their outcomes.

2 So that was the goal of that monogram.

3 Q. Okay. And so that was after the TVT-Secur was on the

4 market, and you were trying to help perhaps further

5 clarify or explain some of the issues or how to

6 address issues that physicians were experiencing?

7 A. That's correct.

8 MR. WALKER: Object to form.

9 BY MS. FLAHERTY:

10 Q. Okay. And you had mentioned a monogram.

11 Can you describe for me what a monogram is?

12 A. It is a booklet that we have put together, and that's

13 basically what it was.

14 Q. Okay. So that's something that's in addition to or

15 different from -- actually, strike that.

16 The monogram is not the IFU, Instructions

17 For Use?

18 A. That is correct.

19 Q. Okay. And I believe I had -- are you familiar with

20 the phrase, I think it's Tips and Pearls --

21 A. Yes.

22 Q. -- with respect to Ethicon products?

23 A. Yes.

24 Q. Do you recall if there was a Tips and Pearls document

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1 with respect to the TVT-Secur?

2 A. Yes.

3 Q. Okay. Is that part of the monogram that you just  
4 described?

5 A. I believe so.

6 Q. Okay. And the intent behind those was to help perhaps  
7 further clarify the information that was in the IFU?

8 A. It was mainly to help --

9 MR. WALKER: Object to form.

10 THE WITNESS: It was mainly to see what are  
11 the technical differences between the slings that were  
12 being done before and now, and that was a major  
13 problem that surgeons were not able to get over the  
14 fact that these are no longer long slings, this is a  
15 short sling, and how do you actually place it.

16 And the value of placing was so important  
17 because what we realized is that the entire tension  
18 was being directed to us thinking, oh, this is a small  
19 little incision in the vagina, it's very easy to do  
20 this procedure.

21 In fact, it was very -- it was harder to do  
22 the procedure as compared to a TVT or a TVT-O because  
23 you had to absolutely make sure that if you're going  
24 by the hammock approach, you're actually getting into

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1           the muscle. With a TVT-O, you are going through the  
2           muscle. There is no question about that because  
3           you're coming out to the skin and so you know that you  
4           have gone through the muscle whereas here if you do  
5           not angle it correctly, you are not getting into the  
6           muscle. So those were important features that we  
7           realized.

8                       At the same time, you know, how do you lay  
9           the sling. It is a pull-out technique, it's not a  
10          pull-up technique. That was a huge difference for us  
11          to understand. So rather than leave an instrument  
12          because throughout what we had learned, and surgeons  
13          had done hundreds of these operations, maybe  
14          thousands, leaving an instrument between the sling and  
15          the urethra at the time of tensioning.

16                     So all of us were used to leaving a little  
17          bit of a gap there. But with the Secur if a gap was  
18          left, that was bad news, and that is why even I had  
19          initial failures with the TVT-Secur.

20                     And then I realized that, no, this is a  
21          problem of my technique, and as I got better and  
22          better at it, I realized that this is a different type  
23          of placement, you know, than the TVT and the TVT-O,  
24          and that is what we wanted to explain and make the



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1 other surgeons understand.

2 BY MS. FLAHERTY:

3 Q. Okay. And that's because it was important to make  
4 sure that doctors understood the proper implantation  
5 technique for the product?

6 A. That is correct.

7 MR. WALKER: Object to form.

8 BY MS. FLAHERTY:

9 Q. And the monogram which I think is -- actually, strike  
10 that.

11 And the monograms were necessary to help  
12 further explain that process for physicians?

13 MR. WALKER: Object to form.

14 THE WITNESS: So if physicians felt the  
15 need that they were having some issues, and then it  
16 was more to highlight, once the material, once the  
17 device was in place for some time and then what did we  
18 find. So obviously there's no way we can find  
19 outcomes in three months, what happened at six months  
20 out, what happened at a year out, and then why if, at  
21 all things, were not going right, what was happening.

22 So many of us realized over time, and  
23 that's the only way to learn, because information for  
24 use will not tell you what is going on because that's

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1 initially set, and then as we go on, we say what did  
2 we learn from clinical experiences, what did we learn  
3 from our peers, what did we learn from what is  
4 published, and based upon that, we came up with these  
5 different notions and ideas and we put together in  
6 there what you mentioned, the Tips and Pearls.

7 BY MS. FLAHERTY:

8 Q. Okay. So it sounds like the implantation technique  
9 and the tensioning were factors with respect to the  
10 outcome for a particular patient or doctor?

11 MR. WALKER: Object to form.

12 THE WITNESS: From the point of view of the  
13 TVT-Secur, it's very important to do it correctly, and  
14 if it was -- if the procedure points that are  
15 highlighted in let's say the IFU, they're mentioned  
16 there but they had to be stressed, the value of doing  
17 this correctly.

18 So, for example, the IFU say not too less  
19 tensioning, not too much tensioning, you know, what  
20 does that clinically mean, so how does a doctor  
21 understand those things.

22 So ultimately if I'm out there, if I'm out  
23 there as a doctor who is practicing and I want to know  
24 what to do, how would I go about it is to look at what

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1 is published, what other information comes out, and  
2 usually it is mostly I would get some publications.

3 And in a paper that we published, we even  
4 highlighted in the discussion the value of this  
5 pull-out technique and how the sling should be  
6 positioned as opposed to the previous slings.

7 BY MS. FLAHERTY:

8 Q. And the monograph is one of the things that would help  
9 physicians understand this and highlight the  
10 importance of this as you just mentioned?

11 A. Yes, one of the things.

12 MR. WALKER: Object to form.

13 BY MS. FLAHERTY:

14 Q. Okay. Did you assist in preparation of any of the  
15 training materials with respect to the TVT or TVT-O?

16 A. No, I did not.

17 Q. Okay. Do you need a break? It's been about another  
18 hour.

19 A. No. It's up to you.

20 MR. WALKER: Can we go off the record real  
21 quick?

22 MS. FLAHERTY: Yeah.

23 (Off the record at 11:29 a.m.)

24 (Back on the record at 11:38 a.m.)

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1 MS. FLAHERTY: Back on the record.

2 BY MS. FLAHERTY:

3 Q. Doctor, in your TVT-Secur report which is Exhibit

4 No. 5 --

5 A. Yeah.

6 Q. All right. On page twenty-seven, you indicate that

7 the TVT-Secur was developed because of dangers

8 associated with the TVT and TVT-O, is that correct?

9 A. Could you -- which line is that?

10 Q. Sure. Let's see. On page twenty-seven, see where it

11 says genesis and rationale for the TVT-Secur system?

12 A. Yes.

13 Q. And the second paragraph, it says: The main risks of

14 the retropubic TVT passage are bladder injury and

15 injury to blood vessels.

16 A. Uh-huh.

17 Q. Some of these injuries, especially to blood vessels,

18 can be catastrophic.

19 A. Uh-huh.

20 Q. And you would agree with that?

21 A. It depends on the placement. So if the surgeon does

22 not follow the typical technique of placement of a TVT

23 and sort of goes lateral, then they could hit the

24 external iliac vessels, and that has happened,

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1 especially if they deviate from the normal method of  
2 doing it, and that could be catastrophic.

3 Q. And you go on to say that the elimination of trocars  
4 could help with these complications or help prevent  
5 these complications I think is what it says.

6 A. Potentially.

7 Q. Potentially.

8 Okay. Are there additional potential  
9 dangers associated with the retropubic approach aside  
10 from the bleeding that we just described?

11 MR. WALKER: Object to form.

12 THE WITNESS: Are you talking about  
13 retropubic TVT sling?

14 BY MS. FLAHERTY:

15 Q. Yes.

16 A. So any surgical intervention has possible  
17 complications, whether it is a device or non-device,  
18 and typically would be bleeding, infection, and injury  
19 is the three things that we typically always quote.  
20 So bleeding to the neighboring vessels could happen,  
21 and you never know, there could be a vessel in the  
22 space of Retzius that could bleed.

23 Second is injury. Even if you try to  
24 deflect the bladder to the contralateral side, there

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1           may be scarring from a previous operation that the  
2           patient may have had, and there is possible risk of  
3           injury to the bladder and possible risk of infection  
4           because you are working in the vagina which has a  
5           bacterial flora. So that's why it's called a  
6           clean-contaminated surgery.

7                       So there's always a possible risk of these  
8           three factors.

9       Q.    Would you also include in the risks or, I'm sorry, in  
10           the list of potential dangers associated with the  
11           retropubic approach bowel perforation?

12                   MR. WALKER: Object to form.

13                   THE WITNESS: If a sling is done correctly,  
14           then it is very, very unlikely to happen, and it is  
15           even in reports published, I mean, they don't even  
16           mention it because it could be like one or two cases  
17           over maybe a hundred thousand.

18                   So typically I would not even discuss with  
19           my patient, though I may say that that could happen,  
20           it's very rare. You can't even give a percentage to  
21           that complication.

22       BY MS. FLAHERTY:

23       Q.    What about bladder perforation?

24       A.    Bladder perforation is just the way you're going in,

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1 and it's impossible to say whether it could hit or  
2 not. That's why it's always good to look inside the  
3 bladder, but the risk of that is very low. Typical  
4 reports would say less than two percent likely risk of  
5 bladder injury with the TVT.

6 And it has not changed whether it's a TVT  
7 or the transobturator. So one may feel that  
8 potentially bladder perforation is lesser with a  
9 transobturator but could even happen with a  
10 transobturator technique.

11 Q. Okay. So it could happen with either technique?

12 A. Yes. And it also could happen with a Burch  
13 colposuspension. So any incontinence procedure, even  
14 a Kelly plication, could cause bladder injury.

15 Q. Okay. And is that something that you would discuss  
16 with your patient before they make a decision as to  
17 which treatment option may be best for them?

18 A. So when we discuss about a surgical modality, then I  
19 would talk to her about what surgical modality and  
20 what are the potential risks associated with that.

21 But most of the complications could happen  
22 with any anti-incontinence procedure, whether it  
23 involves a sling or otherwise.

24 Q. Okay. And vaginal extrusion, is that an additional

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1 complication that you would discuss with your  
2 patients?

3 A. I would mention that it could happen and there is a  
4 potential likelihood of it happening, but that, again,  
5 depends on so many factors.

6 I do not believe -- in my opinion based  
7 upon reasonable degree of medical certainty, a sling  
8 does not cause erosion or exposure.

9 Q. The women who have had slings, you're aware that women  
10 who have had slings placed have suffered from vaginal  
11 extrusion?

12 MR. WALKER: Object to form.

13 THE WITNESS: Vaginal exposure or extrusion  
14 as you mention is a phenomena where the vagina doesn't  
15 heal under the sling, and the sling is then seen or  
16 exposed. So that is not a complication of the sling,  
17 but it has happened, I agree.

18 BY MS. FLAHERTY:

19 Q. Okay. And would you agree that women who have had  
20 synthetic midurethral slings placed have also suffered  
21 from urethral erosion?

22 MR. WALKER: Object to form.

23 THE WITNESS: Could you please repeat the  
24 question?



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1 BY MS. FLAHERTY:

2 Q. Sure. Would you agree that women who have had  
3 synthetic midurethral slings placed have suffered from  
4 erosion of the mesh?

5 MR. WALKER: Object to form.

6 THE WITNESS: I would agree that erosions  
7 have been reported in patients who've had some type of  
8 a synthetic midurethral sling placed.

9 However, it is not because of the sling  
10 that the erosion has happened.

11 BY MS. FLAHERTY:

12 Q. And is it your view that that is caused by other  
13 mechanical issues with respect to the patient?

14 A. There could be many factors. It could be patient  
15 factors, it could be the surgeon factors, it could be,  
16 you know, the technique, how it was placed, and a part  
17 of the patient factor also, what previous operations  
18 she had undergone, how thin is the tissue under the  
19 urethra, and then, again, you know, what was the  
20 tensioning that the surgeon placed under the urethra.

21 Q. And the tensioning is an important piece of the  
22 implant procedure, is that correct?

23 A. From the success standpoint, yes.

24 Q. Okay. And when you talk about the success standpoint,

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1 does that also factor in any complications or adverse  
2 consequences that a patient may have following the  
3 procedure?

4 MR. WALKER: Object to form.

5 THE WITNESS: In what sense?

6 BY MS. FLAHERTY:

7 Q. Well, you had talked about it factors into the success  
8 of the procedure.

9 Does your definition of success with  
10 respect to a midurethral sling procedure include both  
11 whether it stops the incontinence as well as whether  
12 there's any sort of complications that that woman is  
13 suffering following the procedure?

14 MR. WALKER: Object to form.

15 THE WITNESS: That's a good question. So,  
16 now, in the past, the typical success was based upon  
17 certain factors just like as we talked about earlier,  
18 subjective cure versus objective cure.

19 Now, you know, the NIH consensus is, the  
20 NIH consensus is that it should not be based upon  
21 that. It should be a composite score, it should be  
22 how is, how is her quality of life. In other words,  
23 yes, you put the sling in, she's not leaking, but how  
24 is she voiding, is it too tight that she's not voiding

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1 properly and she's struggling to empty her bladder.

2 So you want to make sure that you get a  
3 composite score which looks at not only how well it  
4 has treated the problem that she came for but you did  
5 not give her any new problems thereafter.

6 So when we published our paper on the  
7 TVT-Secur in-office, we actually looked at a composite  
8 score where we looked at not just how our success was  
9 and how dry she was but also did she get any other  
10 problems with it. So we put all that together and  
11 then came up with a score.

12 BY MS. FLAHERTY:

13 Q. If the TVT-Secur was still on the market, would you --  
14 would it be your preference to use that product over  
15 the TVT or TVT-O?

16 A. I would. I had transitioned from the TVT-O on to the  
17 TVT-Secur, and the only reason I stopped doing the  
18 TVT-Secur was because it was taken off the market.  
19 Otherwise, I was very happy with how it was going, and  
20 especially with my patients that we were following up  
21 were doing excellent with the technique.

22 And, in fact, I switched to a similar  
23 family of operations. So I did not go from the  
24 TVT-Secur back to the TVT-O. I went from TVT to Secur

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1           which is a single-incision sling to another  
2           single-incision sling made by a different company  
3           which is the MiniArc.

4       Q.   And then you went to the Solyx?

5       A.   Which is a single-incision sling. So, in other words,  
6           if TVT-Secur was still to be on the market, I would  
7           still be using the TVT-Secur.

8       Q.   Okay. And that's because you felt that the success  
9           rate was better than what you had experienced with TVT  
10          and TVT-O?

11      A.   No. My success was very good with the TVT and the  
12          TVT-O. I felt that because it was minimally invasive,  
13          I could do it under local anesthesia, and that is why  
14          I did a clinical trial in the office. So in that  
15          study when we did it, we had a properly formatted  
16          trial that we did it where we performed fifty patients  
17          in the office completely under local anesthesia.

18                   So what I thought is that it would be a  
19          boon for women where now they do not have to go to a  
20          hospital, they do not have to go to a surgery center,  
21          they could come to a doctor's office, in a methodic  
22          and a proper fashion, a procedure should be done, and  
23          she is home within an hour and back to work the next  
24          day.

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1                   Because in our clinical trial, when we did  
2                   a proper pain scale, patients did not take any  
3                   narcotics. If anything, they took Tylenol for pain.

4       Q.   Is the Solyx also -- is the Solyx implant also done in  
5           the office?

6       A.   I have -- I'm doing it under, entirely under local  
7           anesthesia, but since I'm working on my patent  
8           procedure, I have not moved it to the office yet.

9       Q.   Do you agree that the TVT, and I'll say TVT, TVT-O,  
10           and TVT-S, those implants cause a foreign body  
11           response in the woman?

12      A.   Any foreign body which is implanted would cause a  
13           foreign body response. So, yes, they would cause a  
14           foreign body response.

15      Q.   And those products can also cause chronic  
16           inflammation?

17      A.   I do not agree with that. There has been no -- well,  
18           actually, let me take it back. It is possible it may  
19           cause some type of a macrophage response, but it has  
20           never been studied in situ where everything is intact  
21           whether it continues to do it, but, because it goes  
22           through a certain phase of a foreign body response  
23           which starts from tissue injury when the surgical  
24           intervention happens, protein absorption, acute

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1 inflammation where initial neutrophils come out,  
2 chronic inflammation where there's macrophages which  
3 eventually become multinucleated giant cells, and that  
4 leads to granulation tissue formation and finally  
5 encapsulation. So I see this with any foreign body.

6 For example, if it's an InterStim battery,  
7 you see the same thing. So there is not an ongoing  
8 inflammation because I have gone back in a patient who  
9 had, for example, the TVT-Secur placed, and she was  
10 still having incontinence. So I've gone back and  
11 opened up the incision and found that the sling was as  
12 is as it was placed, and there was no evidence of  
13 infection at all.

14 Q. Do you know how long that procedure or how much time  
15 had passed from implant until you had conducted that  
16 procedure you just discussed?

17 A. Yeah. I have -- I'm doing a clinical trial on  
18 something called the plication of the sling, and that  
19 is where we just go back in a patient who is still  
20 having some residual stress incontinence, we go back.

21 And it started because I had gone back to  
22 replacing sling, I put in a TVT-Secur. I opened up  
23 the incision, I looked at the Secur, and I could not  
24 believe what else more could I do because the sling

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1 looked perfectly as it was. It was where it was  
2 supposed to be and it seemed to be as tight as I could  
3 put it. And I asked some of my colleagues and I took  
4 a video and asked them what do you think, and they  
5 mentioned this is perfect. But she was still leaking.

6 So what I then did, I thought that maybe  
7 it's like a buckle of a belt. If someone loses  
8 weight, you just tighten it up, you don't throw the  
9 belt away. So I said why should I not then just  
10 tighten the sling. So we did a tightening of the  
11 sling called plication of the existing sling, and we  
12 are tracking our patients, and we're finding that the  
13 results are very good.

14 So this, to answer your question, this has  
15 varied from I could be going back in six months to  
16 about two years to five years. Recently I did a  
17 patient who was almost about four to five years out,  
18 and I went and plicated it.

19 Q. And the plication, is that something that is done --  
20 I'm sorry.

21 A. It's my pager. That's all right.

22 Q. You're okay?

23 MR. WALKER: You don't need it?

24 THE WITNESS: No, that's okay.

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1 MS. FLAHERTY: Strike that last question.

2 Sorry.

3 BY MS. FLAHERTY:

4 Q. With respect to the plication study, is that focused  
5 on situations where the woman is continuing to suffer  
6 from incontinence?

7 A. Yes.

8 Q. Okay. And so the plication study's focus is not on  
9 erosion or degradation of the mesh; it's whether the  
10 mesh worked to stop the incontinence, is that a fair  
11 statement?

12 A. That's correct, right.

13 Q. Okay.

14 A. And the reason I could plicate it is because the mesh  
15 was still there as placed just almost yesterday.

16 Q. Okay. And what's the status of the plication study in  
17 terms of completion and where you're at with that  
18 process?

19 A. You know, fortunately we have had very good results  
20 with our studies, so we do not have that many failures  
21 of the sling. So it's we are finding difficulty  
22 enrolling patients in, but I think once we get to  
23 about ten or fifteen cases, then we will be enrolling.

24 We want to see at least a year follow-up.



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1           So I believe we're about six months, you know, from  
2           follow-up, so then we're waiting for six more months  
3           to see how these patients do.

4       Q.    Okay.  So at this point you're somewhere less than ten  
5           to fifteen patients, hoping to -- I shouldn't said  
6           hoping but waiting to see if some additional patients  
7           will meet the criteria to be enrolled?

8       A.    Right, yes.

9       Q.    Okay.  Would you agree, Doctor, that there's a  
10          distinction between postoperative pain and chronic  
11          pain?

12      A.    Well, typically the postoperative pain is usually  
13          transient, should not be long lasting, and everybody  
14          has some type of postoperative pain.

15                    So the chronic pain is where you do not  
16          expect this to be the case, whether it is pain because  
17          of fibromyalgia, you know, or pelvic pain syndrome or  
18          vulvodynia, and so that's an ongoing issue.

19                    So that's the main difference.  One is  
20          usually a transient thing which is always there but  
21          goes away which is the postoperative pain, and chronic  
22          pain is longstanding.

23      Q.    Do you treat any patients that have chronic pelvic  
24          pain?

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1 A. Yes, I do.

2 Q. And what is your general treatment for those patients?

3 A. It depends on the disease state typically, so, and  
4 what symptoms they have.

5 Most of these patients that I see come  
6 with, you know, pain during intercourse, just  
7 generalized pain in the vagina, and they have this  
8 condition called vulvodynia, slash, pelvic pain  
9 syndrome. Many of them are managed medically with  
10 older neuromodulation therapy such as amitriptyline.

11 Q. And is that a prescription drug?

12 A. Yes.

13 Q. And is that something that you anticipate has a  
14 limited duration or they could be on these  
15 prescription drugs for an indefinite period of time?

16 A. It is variable. We haven't studied this.

17 However, we have had some patients who have  
18 sort of reset their nerves, and they're doing well and  
19 they do not need to be on the medication and we can  
20 wean them off whereas some others we have tried to  
21 wean off, but, again, the symptoms come back and we  
22 have to keep them on it.

23 Q. Okay. So chronic pain can be somewhat difficult to  
24 treat from patient to patient?

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1 A. Yes.

2 Q. Okay. And there can be some side effects of the  
3 medications that they need to take if they're having  
4 chronic pain, is that fair?

5 A. Yes.

6 Q. Are you offering any opinions, general opinions, not  
7 case-specific, with respect to nerve damage associated  
8 with TVT, TVT-O, or TVT-S?

9 A. Your question is are you offering? Yes, I am  
10 offering.

11 Q. Okay. What is your opinion?

12 A. My opinion is that it does not produce nerve damage.

13 Q. Does not, I'm sorry, produce?

14 A. It does not produce nerve damage.

15 MR. WALKER: I'm sorry. I just want to  
16 clarify. Were you talking about the procedure itself  
17 or the mesh in place?

18 MS. FLAHERTY: Well, both, but I will break  
19 it down into each question.

20 MR. WALKER: Okay.

21 THE WITNESS: Okay.

22 BY MS. FLAHERTY:

23 Q. First, why don't we go to Exhibit 4. 4 I think is TVT  
24 and TVT-O.

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1                   Can you tell me just so I know where we're  
2           looking where in your report -- and take a minute if  
3           you need to -- your opinions are with respect to nerve  
4           damage associated with the TVT and TVT-O.

5       A.    I do not -- the TVT and the TVT-O as a device does not  
6           cause nerve damage, so I don't think I would have a  
7           report to state that.

8       Q.    So there's nothing in the report to state that, is  
9           that correct?

10      A.    I do not think. I mean, I can look at it if you want,  
11           diligently look at it.

12      Q.    I haven't seen it, so I believe you when you say  
13           that --

14      A.    Okay.

15      Q.    -- you don't think it's in there.

16                   Do you have an opinion that the procedure  
17           can cause nerve damage?

18      A.    Yes. Any surgical intervention can cause nerve  
19           damage. So whether it is an incision in the vagina or  
20           dissection can potentially cause nerve damage, or an  
21           improper placement of the device can cause nerve  
22           damage.

23      Q.    I know we've talked a lot today about the importance  
24           of the placement and the implant technique.

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1                   You haven't rendered any opinions  
2           indicating that implanting physicians have caused or  
3           done malpractice with respect to how they've implanted  
4           mesh, have you?

5                   MR. WALKER: Object to form.

6                   THE WITNESS: No.

7   BY MS. FLAHERTY:

8   Q. Did you understand my question, Doctor?

9   A. That means have I stated that a particular doctor did  
10       something wrong.

11   Q. Correct.

12   A. No, I have not stated so, something such.

13   Q. And is it fair to say that if a mesh maybe has too  
14       much or too little tension that that's not a breach of  
15       the standard of care, it's a factor of the implant but  
16       not necessarily malpractice?

17                   MR. WALKER: Object to form.

18                   THE WITNESS: That is correct. For  
19       example, it also depends on who the patient is.

20                   So just like what I mentioned, when I went  
21       to put a new sling in and I looked at the previous  
22       sling and I thought I could not do any better, so for  
23       most patients that sling might have done fine, but  
24       maybe this patient was a little bit obese or had a

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1 significant cough from let's say asthma, and she may  
2 be totally different as someone else who just barely  
3 coughs. So the other barely cougher would have been  
4 just fine and the sling would have been great whereas  
5 this person, it was not tight enough for her.

6 So it is so subjective and has to be so  
7 much tailored to each individual patient that it's  
8 hard to determine what exactly should be the placement  
9 and the tensioning. So it is not malpractice or  
10 deviation from standard of care if it is not placed  
11 adequate for that particular patient.

12 BY MS. FLAHERTY:

13 Q. Okay. And would the same hold true with respect to  
14 the TVT-S?

15 A. Yes, as long as the proper steps are followed and they  
16 have done the proper procedural attachments.

17 For example, if they're doing it in the U  
18 fashion, then they have to put it -- the sling has to  
19 be in the urogenital diaphragm, and if it is by the H,  
20 it should penetrate the obturator internus muscle. So  
21 if that has been done, what should be done by a proper  
22 implanting surgeon, then that is standard of care.

23 Q. And that's information that you I think you said  
24 highlighted or stressed in the monograph --

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1 A. Yeah.

2 Q. -- that you and your colleagues previously prepared?

3 A. That's correct.

4 Q. Okay. You had mentioned that any -- in your opinion  
5 surgical procedures can cause nerve damage.

6 Would that include the TVT-Secur implant  
7 procedure?

8 A. The surgical procedure, yes.

9 Q. Okay. Have you ever had occasion to refer a patient  
10 to another doctor for explants or revision of  
11 synthetic mesh?

12 A. Could you please repeat that?

13 Q. Sure. Have you had occasion to refer patients to  
14 other doctors for either the or for the explantation  
15 or revision of synthetic mesh?

16 A. I have not had, not for explants, because explant I  
17 could do it.

18 However, there was a patient that I had  
19 seen who was -- who came to see me because she had a  
20 sling procedure done and was complaining of pain, and  
21 I advised her that the pain was not because of the  
22 sling, and she kept insisting that I should take the  
23 sling out, and I told her that that will be not good  
24 for her because she would have incontinence, and we

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1           were not on the same wavelength.

2                       So I sent her to one of my colleagues for a  
3           second opinion.

4       Q.   Are you aware with the TVT-O mesh -- actually, strike  
5           that.

6                       On the TVT-O mesh, are there arms or legs  
7           of the mesh that will extend perhaps a little bit  
8           further into the transobturator space and/or perhaps  
9           into the legs?

10      A.   For the TVT-O?

11      Q.   Yes.

12      A.   Yes. You always do it. They always go through the  
13           obturator muscle and they come out into the groin.

14      Q.   And so if a TVT-O mesh needed to be removed, is it  
15           fair to say that it's going to be much more difficult  
16           to remove the portions of the mesh that go through the  
17           transobturator space or into the leg area?

18                      MR. WALKER: Object to form.

19                      THE WITNESS: You know, I don't even see  
20           any reason to do that because, you know, as has been  
21           clearly highlighted in my personal experience but also  
22           in many literature reviews and literature itself that  
23           TVT-O, even if there is groin pain, it's very  
24           transient.



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1                   So almost all articles published with  
2                   long-term information would say that the groin pain  
3                   goes away. So it's very unlikely that, it's very  
4                   unlikely that there would be persistence of groin  
5                   pain.

6                   In my practice as I have done several  
7                   hundreds of that, I had one patient who had a little  
8                   longstanding groin pain, and it went away on its own.  
9                   So I can't even come across a scenario where I would  
10                  want to go and dig into the muscle and try to pull out  
11                  the entire sling because ultimately when it goes into  
12                  the muscle, it's almost like a string, it folds up  
13                  into the muscle, whereas under the urethra, it's like  
14                  a flat piece but not into the muscle.

15                  So I don't even see any reason to take it  
16                  out unless, for example, there's some infection and it  
17                  has to be taken out, but that's extremely rare, and  
18                  these are reported cases, maybe one or two, who knows.

19       BY MS. FLAHERTY:

20       Q.     In taking it out from I think the leg area, the  
21                  transobturator space, that's going to be more  
22                  difficult than removing the mesh from just the vaginal  
23                  area?

24       A.     If it has to be, but I don't even see a scenario for

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1 taking it out from the muscle.

2 Q. Okay. And you've had -- I think you have testified  
3 that you've had fairly good success in your mind or  
4 your view with respect to implantation of synthetic  
5 midurethral slings?

6 A. In fact, I was -- it's because we have published this  
7 report also as part of the main cornerstone clinical  
8 trial which was done on the TVT-O and the TVT which  
9 was the TOMUS trial, the Trial of Midurethral Sling,  
10 which is the main study which is always quoted about  
11 the success and the failures, so, and we have had very  
12 good results, not only as a multicentric study but as  
13 an individual practice.

14 Q. You would agree that you probably have more experience  
15 with mesh than a lot of doctors that do the implants?

16 MR. WALKER: Object to form.

17 THE WITNESS: I'm sorry. I can't say for  
18 them.

19 BY MS. FLAHERTY:

20 Q. But in your opinion you do have a lot of experience  
21 implanting mesh?

22 A. Yes.

23 Q. Okay. And you would agree that not all doctors  
24 have -- that do these implant procedures have had the

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1 opportunity to proctor other programs?

2 A. Yes.

3 Q. Okay. And that not all doctors that do these implant  
4 procedures have had the opportunity to study in France  
5 where they had proximity to people who work conducting  
6 studies with respect to the mesh products?

7 MR. WALKER: Object to form.

8 THE WITNESS: Yes. However, they should at  
9 least -- anybody, what I know is anybody who through  
10 the Summit, anybody who has been implanting this, the  
11 people that I have met have always had a good  
12 understanding of they're doing, a good follow-through  
13 of their own successes or failures, and also what they  
14 have implanted.

15 So I think most -- since I've trained the  
16 residents and I know what happens typically is that  
17 when they go out, they go out in a proper, where they  
18 have a good understanding of the anatomy, good  
19 understanding of the surgical anatomy and what is to  
20 be done and review of literature.

21 So I think most physicians who are using  
22 this, you know, they may not be reviewing the  
23 literature as much as I'm reviewing it or may not be  
24 proctoring it, but they have at least fair and

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1 balanced information about what should be done.

2 Otherwise, they should not be practicing. And I have  
3 not come across any physician who has not been doing  
4 it correctly.

5 BY MS. FLAHERTY:

6 Q. And how many doctors generally attended the Summits  
7 that you mentioned?

8 A. About maybe four hundred or five hundred.

9 Q. And do you know how doctors were invited to the  
10 Summit?

11 A. I don't know. I'm sorry.

12 Q. And do you know, do you have any information regarding  
13 any follow-up that Ethicon may have done with doctors  
14 following their training sessions?

15 MR. WALKER: Object to form.

16 THE WITNESS: The main thing that they  
17 asked the physicians is how was their experience, and  
18 why they did it on an ongoing basis was because the  
19 networking physicians really enjoy it.

20 So we realized that we were getting out of  
21 our comfort zone and we want to stay at home with our  
22 family over the weekend but then going out here to do  
23 this, but then we really enjoyed that networking,  
24 asking our colleagues what did they find, what should

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1 we do.

2 And at that time it was more of subtleties.

3 We knew most of the things but what are the subtle  
4 steps that we could do that would change a little bit  
5 more, significantly more, whatever that may be.

6 BY MS. FLAHERTY:

7 Q. And so those subtle changes to the approach or the  
8 techniques could have a significant impact on the  
9 outcome?

10 A. Could or could not. So to be able to talk to each  
11 other and say is there anything else or there's  
12 nothing else.

13 But that's a great brainstorming that we  
14 enjoyed, and that is why they kept doing it on an  
15 annual basis.

16 Q. Okay. And when you say this, you're referring to the  
17 Summits?

18 A. Yes.

19 Q. And for doctors that did not go to the Summit, do you  
20 know what steps Ethicon took, if any, to follow up  
21 and make sure that they were comfortable with the  
22 training that they had received?

23 MR. WALKER: Object to form.

24 THE WITNESS: I don't know, but I would say

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1           that they would go to the American Urogynecology  
2           Society conference. So some of the people who are  
3           implanting slings, slings or meshes, are members of  
4           the AUGS. So I'm sure when they went to the  
5           conference, they could also do similar networking with  
6           colleagues.

7       BY MS. FLAHERTY:

8       Q.    Okay. And you don't have specific information as to  
9           which doctors did or did not attend these conferences?

10      A.    No.

11      Q.    Do you know if Ethicon provided any training to  
12           physicians on how to remove mesh if it became  
13           necessary?

14      A.    I don't know.

15      Q.    Okay. And you haven't tested any mesh that you have  
16           removed from patients for degradation, have you?

17      A.    I don't believe the mesh degrades, but I have not done  
18           any of that.

19      Q.    So you haven't done any testing on that?

20      A.    No.

21      Q.    And you haven't done any testing on shrinkage or  
22           contraction of synthetic mesh, have you?

23      A.    I have done a clinical trial in which we looked at the  
24           total vaginal length postoperatively, and if there was

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1 any evidence of shrinkage, then the vaginal lengths  
2 should shorten, and we not see that happen.

3 So the vaginal caliber postoperatively a  
4 year out and the total vaginal length remained the  
5 same as compared to preoperatively, and we made a  
6 statement in our paper stating that, you know, if  
7 there was a problem, then we would have noticed this.

8 Similarly, just like how Doctor Neilson  
9 mentioned in his TVT report that if seventeen years  
10 out if there was a problem with the shrinkage of the  
11 sling, then there would be some more voiding  
12 dysfunction or difficulty emptying, and he did not  
13 see.

14 So what I go by is completely a clinical  
15 outcome, and in my clinical outcome and my clinical  
16 practice and even by documentation of the findings, we  
17 have not seen mesh shrinkage.

18 Q. And in terms of your clinical practice and your  
19 experience in looking at shortening or contraction of  
20 the vaginal canal, is that in patients that have the  
21 mesh in place, or does it include patients who have  
22 had mesh removed?

23 A. Could you please repeat the question?

24 Q. Sure. You had just mentioned that you have in both

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1           your practice and I think in a study you have looked  
2           at the length of the vaginal canal, and in your  
3           opinion there was no contraction because the length  
4           was the same, is that correct?

5       A.    That is correct.

6       Q.    Okay. And in that study and in your practice, does  
7           that include patients who've had the mesh removed?

8       A.    Well, I have not removed any meshes on an entirety as  
9           I mentioned. So I don't, I don't understand the  
10          question.

11      Q.    Well, how about if they've had erosion of the mesh and  
12          portions of that mesh have been explanted or revised.

13      A.    It didn't matter. It didn't change.

14                      See, the reason why a mesh exposure happens  
15          in my opinion, again, based upon reasonable degree of  
16          medical certainty and from what I've reviewed, is that  
17          the vaginal epithelium under the mesh does not heal  
18          completely, and that does not change the integrity of  
19          the vagina itself.

20                      So it is not that the mesh shrinks, it is  
21          usually the tissues around the mesh that shrinks.  
22          More likely it is the vagina which conforms to its  
23          normal shape. A bulging vagina when it is prolapsing  
24          out is distended because it is prolapsing. Now, once you



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1 put it back to where it belongs, it again reverts to  
2 its normal shape.

3 Very similar to what happens to the vagina  
4 after childbirth, a baby comes out the vagina,  
5 distends, but then it doesn't remain that big, it  
6 comes back to normal, and ultimately, in fact, it  
7 becomes a potential space. That means the walls are  
8 together. There is no open space in the vagina.

9 Similarly, once the bladder or the prolapse  
10 is put back in, the vagina goes back to its normal  
11 shape. So it's a live tissue, so it's all about the  
12 healing process.

13 But what we found is that there was no  
14 change. Whether there was an erosion or not, the  
15 vaginal length before and after remained unchanged,  
16 and so clinically there was no evidence of any vaginal  
17 contraction.

18 And that has been also reported in other  
19 not sling studies we're talking about, we're talking  
20 about mesh studies, especially with a group by Meloni,  
21 et al., were reporting.

22 Q. And with respect to slings specifically, you haven't  
23 done any studies on the mesh itself once it's been  
24 removed, even partially removed, in terms of shrinkage

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1 of the mesh or any alterations to the biomechanical  
2 properties of that mesh?

3 A. I don't know how one can do shrinkage assessments in  
4 the lab, but biomechanical, I have not done any.

5 Q. Okay.

6 A. But the only thing as I mentioned earlier was when I  
7 have gone back and opened the vagina to see the sling  
8 during the plication procedures, I've seen that it  
9 remains the same. It has not shrunk or caused any  
10 distortion in the sling, and most of the times I see  
11 the same blue mesh as it was placed.

12 Q. Okay. And those plication procedures are the ones  
13 where the mesh wasn't working to stop the  
14 incontinence, and you were going in to see what was  
15 going on because it wasn't stopping -- the  
16 incontinence hadn't improved?

17 A. Correct.

18 Q. Okay. Have you conducted any studies specific to the  
19 various porosities or weight of synthetic mesh?

20 A. No, I have not.

21 Q. Okay. Is it fair to say you have not offered any  
22 peer-reviewed studies on porosity or weight of  
23 synthetic mesh?

24 A. That is correct.

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1 Q. Are you aware that Ethicon has documents that discuss  
2 fraying of the TVT or TVT-O mesh?

3 A. I believe I read something. Maybe I don't know if  
4 it's an e-mail or something such, but I don't remember  
5 what document it was.

6 Q. And you haven't considered this with respect to  
7 your -- well, actually, strike that.

8 Have you considered that with respect to  
9 your opinions?

10 A. I have considered it.

11 Q. Okay. And it has not -- why hasn't that impacted your  
12 opinions?

13 A. Because in my clinical experience, I've never seen  
14 this happen. I have gone back, and even when I have  
15 seen where there's an exposure or I've opened up the  
16 vagina for the sling plications, I've seen the sling  
17 just remain as it is.

18 So when this is stated it could, I  
19 personally in my opinion based upon reasonable degree  
20 of medical certainty, it's based upon, you know, the  
21 surgical technique, how the sling was laid, how it was  
22 tightened, it has nothing to do with the sling itself.

23 So I have never seen, nor have I seen any  
24 reports of any fraying or implications of that in

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1 clinical practice.

2 Q. Okay. And you've done twenty to twenty-five removal  
3 or at least explant procedures I think is how we  
4 described it?

5 A. Just excisions and revisions of exposures of vaginal  
6 mesh.

7 Q. Okay.

8 A. Mainly for prolapse, though.

9 Q. Okay. And so of that twenty to twenty-five you said  
10 mainly are prolapse, so do you have an estimate as to  
11 what percentage of those were for TVT or incontinence  
12 products?

13 A. I would say about maybe of that, maybe seven would be  
14 for incontinence.

15 Q. Okay. So with respect to the explant or revision of  
16 incontinence, synthetic incontinence mesh, you've done  
17 roughly seven or eight procedures?

18 A. Could you repeat that?

19 Q. Sure. With respect to synthetic midurethral slings  
20 and specifically the explant or revision of that mesh,  
21 have you done approximately seven or eight of those  
22 procedures?

23 A. Yeah. So I just want to make sure that I think  
24 explant is I'm not removing it. I've never removed a

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1 single sling in its entirety.

2 Q. Okay.

3 A. If I've gone back, I've removed or excised the  
4 exposure in the vagina and closed the vagina on top of  
5 that.

6 So that's the only thing that I've  
7 encountered. I have not seen any urethral erosions or  
8 bladder erosions of the sling.

9 Q. And are a fair number of your patients patients that  
10 you have implanted?

11 A. Yes.

12 Q. Okay. And you haven't done any specific studies on  
13 TVT or TVT-O that other doctors have removed?

14 A. No.

15 MR. WALKER: Object to form.

16 BY MS. FLAHERTY:

17 Q. And you had testified previously that you do not have  
18 a preference of mechanical- versus laser-cut mesh?

19 A. That is correct.

20 Q. And that's because in your clinical experience, you  
21 haven't experienced a difference?

22 A. And also what I've seen in information published,  
23 literature prior to 2007, and if you look at  
24 literature that we just published with the TOMUS

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1 trial, the T-O-M-U-S trial, there's absolutely no  
2 difference in successes before or after. So it's very  
3 likely that post 2007 I believe when they changed from  
4 mechanical cut to laser cut, when that became also  
5 available, I know mechanical cut is still available  
6 for the TVT, but when it switched over, there was no  
7 difference in the outcomes.

8 So I'm really more interested in what the  
9 clinical outcome changes were, and there's nothing  
10 that I've read in published literature or reviewed  
11 with my colleagues or at conferences or my personal  
12 experience that laser or mechanical, one is better  
13 than the other, because I have been using the  
14 TVT-Secur which is a laser-cut mesh and the TVT which  
15 is a mechanical-cut mesh, and I don't even know that  
16 the TVT that we have at the hospital is mechanical cut  
17 or laser cut and it doesn't matter to me because both  
18 of them do very well.

19 Q. And have you reviewed documents from Ethicon that  
20 discuss particle loss?

21 A. Yes, I have.

22 Q. Okay. Do you disagree with those documents?

23 MR. WALKER: Object to form.

24 THE WITNESS: The document I believe which

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1           was by the medical director that eventually addressed  
2           the particle loss, I believe it was Marty Weisberg or  
3           Weinberg, he basically said that this should be  
4           further assessed, and from what I understand from the  
5           conclusion is that it could happen, it may happen, but  
6           clinically it has never been shown.

7                       To me, I completely go by what's clinical  
8           data and clinical outcomes, and having reviewed this,  
9           I've never seen any clinical trial that highlights  
10          particle loss as a concern. I have personally never  
11          seen a particle just floating around as what was  
12          mentioned in one of those Ethicon e-mails that you're  
13          talking about. And it doesn't matter whether it was a  
14          mechanically cut or laser cut. I've never seen that.

15                      So I think it could be just, you know, they  
16          may have noticed on an in vitro basis in the lab as  
17          opposed to what someone may have just reported to  
18          them, but overall in clinical publications, there has  
19          been no implication of this problem.

20       BY MS. FLAHERTY:

21       Q.     And you haven't had any conversations with Ethicon or  
22               the authors of those documents regarding particle  
23               loss, have you?

24       A.     No, I have not.

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1 Q. And you haven't seen any underlying data that Ethicon  
2 may have with respect to particle loss, have you?

3 MR. WALKER: Object to form.

4 THE WITNESS: Like what would you say?

5 BY MS. FLAHERTY:

6 Q. Have you seen any case reports that Ethicon may have  
7 with respect to particle loss?

8 A. No.

9 Q. Okay. I'm sorry. Particle release is what I meant to  
10 say. I apologize.

11 A. No, I have not.

12 Q. Okay. So you would not know whether those case  
13 reports discuss anything regarding particle release or  
14 not?

15 A. See, if there's anything which was significant, it  
16 would have been in a peer-reviewed journal, so I would  
17 clearly have read it if it's in a peer-reviewed  
18 journal which is the most important journal that we  
19 look at rather than someone who may anecdotally report  
20 a case.

21 And the value of that is not really  
22 clinically significant if one person reports whereas  
23 ten thousand reports state to the contrary. So  
24 typically go by the ten thousand which states to the



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1           contrary than one case that stands out.

2                       Not that I ignore it. I observe it, but at  
3           the same time, I go by what is the likelihood or  
4           implication of this overall, and what physicians like  
5           myself and others go by is data, what is published,  
6           what's information, what do we discuss, what's the  
7           information amongst colleagues rather than company  
8           material.

9       Q.   And in your own personal clinical practice, that's  
10           going to be limited to about seven to eight TVT  
11           revision procedures?

12      A.   And also the plications that I've gone in when I had  
13           to do that, and also when I've had to operate, for  
14           example, if I placed a sling and I'm going down to put  
15           a mesh for prolapse and I open up that area and happen  
16           to notice the sling, so then the sling's okay, I'm not  
17           going to touch it, but I'm operating there, so the  
18           sling might still be there.

19      Q.   So that latter part, that's a procedure where somebody  
20           has a new issue, for example, prolapse that's  
21           unrelated to their SUI condition or mesh?

22      A.   Yes.

23      Q.   Okay.

24      A.   But then I would see the sling, how it is.

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1                   So based upon clinical in vivo presence, I  
2           have never seen any concerns that I would have based  
3           upon this particle loss issue.

4       Q.   Are you aware that some doctors refer to the particle  
5           release as a linting factor?

6                   MR. WALKER:   Object to form.

7                   THE WITNESS:   I have not heard that.

8                   MS. FLAHERTY:   Okay.   You know, we can  
9           probably take one last break, and I think there's a  
10          good chance we'll be done by 1:00 o'clock.

11                   (Off the record at 12:24 p.m.)

12                   (Back on the record at 12:31 p.m.)

13       BY MS. FLAHERTY:

14       Q.   All right, Doctor.   I think we're getting close to the  
15           end.

16       A.   Okay.

17       Q.   To clarify, and I apologize if I asked you this  
18           previously, you have not produced or participated in  
19           the design of any pelvic mesh product?

20                   MR. WALKER:   Object to form.

21                   THE WITNESS:   For a sling for incontinence?

22       BY MS. FLAHERTY:

23       Q.   For a sling.

24       A.   Yes, I have not.

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1 Q. Have not?

2 A. Have not.

3 Q. Correct.

4 And you do not consider yourself an  
5 expert on the design of synthetic midurethral slings,  
6 do you?

7 A. I'm sorry.

8 MR. WALKER: Object to form.

9 THE WITNESS: Actually, I do. That's part  
10 of the reason why I'm working on this particular  
11 patent.

12 BY MS. FLAHERTY:

13 Q. Okay. And the patent, did you say that had to do with  
14 the implant technique or the mesh itself?

15 A. It's more the implant technique and technique itself.

16 Q. Do you have opinions regarding which type of implant  
17 technique is better?

18 A. In what sense?

19 Q. With respect to potential risks associated with a  
20 synthetic midurethral sling.

21 MR. WALKER: Object to form.

22 THE WITNESS: From the literature, the TVT  
23 and the TVT-O both have stood the test of time and  
24 have been studied extensively in randomized trials and

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1 found to be very effective. So there is no doubt that  
2 the transobturator TVT-O is as good as the retropubic  
3 TVT which basically took over the gold standard  
4 pedestal from the Burch colposuspension. So we now  
5 know both these techniques are good.

6 However, there's some concern about the  
7 single-incision slings, but what we have realized that  
8 that's more technique driven, and now that surgeons  
9 who have mastered the technique clearly prefer the  
10 single-incision sling. I prefer the single-incision  
11 sling because I can do this entirely under local  
12 anesthesia.

13 It is not about the success or the  
14 complications. It is about the ease of how you can do  
15 this procedure and get the woman back into the  
16 workforce.

17 As you mention, transient pain can happen  
18 with any procedure. We talked about that. And with  
19 the TVT and the TVT-O, there is a potential risk of  
20 transient pain. With the TVT-Secur like products such  
21 as the single-incision sling, it is much lesser  
22 discomfort or pain, and that's what I've seen in my  
23 practice, and that's why I favor a single-incision  
24 sling.

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1 BY MS. FLAHERTY:

2 Q. Okay. And with respect to the design of Ethicon's  
3 synthetic midurethral sling, you did not participate  
4 in the design of those products, is that correct?

5 A. That is correct.

6 Q. And you did not participate in the design controls  
7 with respect to those products?

8 A. That is correct.

9 Q. And do you have any knowledge regarding Ethicon's  
10 internal standards with respect to their design  
11 controls for those products?

12 A. Yes, I do.

13 Q. Okay. And what is your knowledge regarding Ethicon's  
14 standards?

15 A. I have read several documents that have gone over  
16 exhaustive studies for right from the Prolene suture  
17 and how it was studied to the mesh, the sling, and to  
18 the instruments, the needle that was placed for the  
19 TVT-Secur, for example, and the validation criteria  
20 that were done, the clinical trials that were done,  
21 whether it was a sheep model or ultimately the human  
22 model. So I've reviewed all that.

23 And on the review of the literature, my  
24 opinion is that there is extensive research and work

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1 done in validation of the device and the instruments.

2 Q. So that's based on your review of literature that  
3 other people have authored?

4 A. Yes.

5 Q. And have you participated in any meetings with Ethicon  
6 regarding the design of its midurethral sling  
7 products?

8 A. I think, I believe by the time the TVT-Secur, when we  
9 initially started the clinical trial, the design was  
10 already established, so I was not involved in the  
11 design of the TVT-Secur.

12 Q. And you have not drafted or reviewed any failure  
13 analysis documents with respect to Ethicon synthetic  
14 midurethral slings, have you?

15 A. I have done my clinical trials. So in the clinical  
16 trials, I also mentioned the success and failures.

17 Q. But have you looked at any actual failure analysis  
18 documents that Ethicon has --

19 A. Provided me?

20 Q. Actually, strike that.

21 Have you authored or contributed to any of  
22 Ethicon's failure analysis documents?

23 A. No, I have not.

24 Q. Okay. You have not done any bench research with

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1 respect to polypropylene, have you, Doctor?

2 A. No, I have not.

3 Q. You've not authored any studies with respect to bench  
4 research on polypropylene?

5 A. No, I have not.

6 Q. Is it your opinion that there's a learning curve with  
7 respect to the implant or the technique associated  
8 with Ethicon's midurethral slings?

9 MR. WALKER: Object to form.

10 THE WITNESS: I believe there's a learning  
11 curve with any surgical intervention. Any and every  
12 surgical intervention has a learning curve.

13 In fact, it's very well documented by a  
14 paper by Romans, et al., R-O-M-A-N-S, where they show  
15 that the learning curve varies depending on what is  
16 the surgical procedure and then how many years or how  
17 many months or how many procedures would it take to  
18 overcome to get to the learning curve.

19 BY MS. FLAHERTY:

20 Q. And so that would include the midurethral sling  
21 procedures as well?

22 A. Yes.

23 Q. Okay. I don't think I asked this before, and I  
24 apologize if I did. Did you draft any portion of the

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1 IFU or Instructions For Use on the TVT?

2 A. I have not.

3 Q. And did you draft any portion of the IFU with respect  
4 to TVT-O?

5 A. No, I have not.

6 Q. And I have the same question with respect to the  
7 TVT-Secur.

8 A. No, I have not.

9 Q. Okay. Did you consult with anyone at Ethicon or did  
10 Ethicon consult with you with respect to the  
11 Instructions For Use?

12 A. No.

13 Q. Did you draft any patient brochures regarding  
14 Ethicon's midurethral slings?

15 A. No, I have not.

16 Q. Did Ethicon consult with you with respect to the  
17 patient brochures for its midurethral slings?

18 A. No, they did not.

19 Q. Do you use the patient brochures in your practice,  
20 Doctor?

21 A. Yes, I do.

22 Q. And how do you use those patient brochures?

23 A. It is one element of the total discussion when we do  
24 what is called a consultation visit. So we hand them



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1 the brochure and tell them this is some information.

2 However, the most important information  
3 that we make our -- we discuss with the patient is the  
4 actual discussion with the patient based upon their  
5 disease state, what is the best option for them and  
6 what would work based upon risk-benefit assessment,  
7 determined by several factors of which most of them  
8 could be patient factors, the desire factor, the  
9 attitude factors, what they want, and what is the main  
10 complaint.

11 Q. And so the discussion is I think you said the most  
12 important piece of that analysis, is that correct?

13 A. Yes.

14 Q. Okay. So if the discussion is the most important  
15 piece of that analysis, is it fair to say it's  
16 important that the doctors have the information they  
17 need to have that conversation with the patient?

18 MR. WALKER: Object to form.

19 THE WITNESS: I think most doctors already  
20 formed that right from their training as medical  
21 students, even before they become OB/GYN residents or  
22 urology residents. So they already have that, and  
23 part of our education of residents is to see how they  
24 discuss and talk to a patient.

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1                   So, in fact, every resident is evaluated by  
2                   a faculty, actual their interaction with the patient.  
3                   So this is an ongoing thing that we do all the time.  
4                   So it's nothing new for doctors to be communicating  
5                   and discussing information with their patients.

6       BY MS. FLAHERTY:

7       Q.     And part of that information comes from the  
8                   Instructions For Use, is that fair?

9       A.     Instructions For Use is just one document that we may  
10                  refer to, but it is just one part of it. A lot of the  
11                  information comes from many other sources.

12      Q.     And the Instructions For Use for the midurethral  
13                  slings have changed over time, is that fair to say?

14      A.     Yes.

15      Q.     Do you use the Instructions For Use at all in your  
16                  practice when consulting with patients?

17      A.     Well, no. I don't tell them this is what is in the  
18                  Instructions For Use. So I just, I have reviewed it.

19                       Instructions For Use from what we  
20                  understand as physicians is that Instructions For Use  
21                  is more for physicians. It's not for patients. It's  
22                  getting awareness and then understanding it. We have  
23                  to -- one should review it before doing a procedure.  
24                  That's important.

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1                   However, then most of our knowledge is then  
2                   and our discussion with the patients is based upon  
3                   experience, what is in the literature, what has been  
4                   published, what is my information. So I almost never  
5                   tell the patient that this is the information for use  
6                   and this is what you should have.

7                   I would tell them let's say if she has a  
8                   sling, I'd go back, what is the risk-benefits  
9                   assessment for her condition, for her let's say body  
10                  frame, for her habitus, you know, her health status,  
11                  her desires, what she wants, and then assess it based  
12                  upon experience, my experience, my results, and  
13                  results published in the literature.

14       Q.        Would you agree, though, that there is some  
15                  information in the Instructions For Use that patients  
16                  may want to consider in their decision-making process?

17                  MR. WALKER: Object to form.

18                  THE WITNESS: Most of the discussion would  
19                  be coming from the physician. So I think what the  
20                  patient should rely on is even more than Instructions  
21                  For Use. I think it may be the patient brochure that  
22                  she may look at.

23                  But even more than that, I think a patient  
24                  should always listen and follow with the doctor, and

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1 the doctor should really focus on explaining to the  
2 patient and not just giving her a brochure and say,  
3 here, read the Instructions For Use and read the  
4 brochure, patient brochure, that the company has  
5 produced.

6 I think it's very important because each --  
7 the beauty of medicine is that each case is individual  
8 and tailored, so there is nothing like a blanket  
9 statement or black and white, you know, one set  
10 protocol. Every woman is so different from the other.

11 So if a patient comes and presents her  
12 story, it also depends on what her story is, and you  
13 have to tailor it appropriately. So it entirely  
14 comes, it's a very live discussion, and it entirely  
15 comes from the doctor and the patient interaction. So  
16 that is the key part. What is somehow labeled as an  
17 informed consent or a procedure of consultation is  
18 most important rather than any particular document as  
19 such.

20 BY MS. FLAHERTY:

21 Q. And do you hold that same opinion with respect to the  
22 adverse events that are described in the Instructions  
23 For Use?

24 A. Yes. The adverse events, when we talk to a patient,

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1 we put things into perspective, tell them what is the  
2 likelihood of something happening, and we inform the  
3 patients of our, you know, the most common. We may  
4 not be highlighting every possible adverse event like  
5 something the PDR would have about a drug, but we tell  
6 them what is the likelihood of happening.

7 So once the patient is aware of that, she  
8 can put it into a risk-benefit profile and say, okay,  
9 considering the information I've been given by my  
10 physician, based upon his or her experience and the  
11 knowledge which is out there, this is what he's  
12 telling me. Now, what is my concern and my complaint,  
13 and she balances it out and sees what is favorable for  
14 her to choose.

15 Q. Would you agree that for most patients, they're going  
16 to then obtain information regarding risks and  
17 benefits of a product either from the patient brochure  
18 or their discussion with their doctor?

19 MR. WALKER: Object to form.

20 THE WITNESS: Could you repeat the  
21 question?

22 BY MS. FLAHERTY:

23 Q. Sure. Would you agree that patients are going to  
24 obtain their information regarding risks or benefits

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1 associated with the midurethral sling either from the  
2 patient brochure or conversation with their doctor?

3 MR. WALKER: Same objection.

4 THE WITNESS: Yes. Unfortunately, now they  
5 may get biased by seeing adds on TV, you know, what  
6 happens, or it may be something that they hear from a  
7 colleague and his or her experience that they noted.  
8 So that could be some other information they may get.

9 However, the information that we always  
10 tell our patients to rely upon is what we provide them  
11 and because we provide them nondirective information.  
12 We do not give them biased information. We give them  
13 information which is not nonjudgmental, nonbiased,  
14 nondirective, in order to help them make the right  
15 decision based upon facts and what their complaints  
16 are.

17 So we try to balance that out, and most  
18 doctors do that. They say, okay, what is your  
19 concern, how much does it bother you, and this is --  
20 these are what your options are. So ultimately it is  
21 the way we practice and I'm sure most doctors  
22 practice. We leave the decision to the patient, what  
23 does she want based upon the information that she has  
24 been given, and that is called nondirective

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1 counseling. That's what most of us practice.

2 BY MS. FLAHERTY:

3 Q. And the key piece of that is the information that's  
4 given to the patient so ultimately she can make a  
5 decision?

6 A. That is correct.

7 MR. WALKER: Object to form.

8 BY MS. FLAHERTY:

9 Q. And do you utilize a consent form for your midurethral  
10 sling implant procedures?

11 A. It is more a process that we utilize rather than a  
12 form. We do have a form, but it's a process. So the  
13 process goes right from the first visit to the  
14 discussion of the consultation.

15 So for us, the most important is the  
16 consultation discussion when we tie everything up,  
17 what is her history, what is her exam, what are the  
18 findings on urodynamics, on her diaries, what are her  
19 complaints again, and we put everything in perspective  
20 and say, okay, this is the problem, this is what can  
21 be done about it, and then what do you want.

22 So that whole thing is outlined in our  
23 notes and the discussions, and one of the forms  
24 happens to be a consent form.

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1 Q. Has that process and the content of that process  
2 evolved over the years for you?

3 A. Yes, it has.

4 Q. And does that evolution include perhaps additional  
5 information regarding risks that are now in the  
6 Instructions For Use that may not have been there six  
7 years ago?

8 MR. WALKER: Object to form.

9 THE WITNESS: You know, the only evolution  
10 that has happened is the FDA advisories, and what we  
11 do now is we give, you know, we have -- in our  
12 practice, nothing has changed from the point of view  
13 how we conduct things. The only thing we're doing is  
14 we're talking more to the patients because we hear the  
15 patients hearing, we know patients are seeing things  
16 on TV about the vaginal mesh and the slings.

17 So we want to make them understand the  
18 difference between a sling and what a mesh for  
19 prolapse is and what a sling for incontinence is and  
20 at the same time what did the White Paper of the FDA  
21 state, what are the questions that the FDA asks the  
22 patients to ask their doctors. So we give them the  
23 questions, we give them our answers, and then we go  
24 over the FDA's recent up classification.



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1                   So the real change in our documentation and  
2                   discussion with our patient is giving them the  
3                   information, what the FDA is recommending, at the same  
4                   time, making them understand the facts and not get  
5                   spooked by the fear of what they see on TV.

6       BY MS. FLAHERTY:

7       Q.    Have you changed your informed consent form over the  
8             years?

9       A.    We have just added that, we've added the White Paper  
10            that we hand the patients over. We give them the  
11            questions, answers of the FDA, what the FDA states you  
12            should ask your doctor statement.

13                   So it's question, answer, the question that  
14                   the FDA says that you should ask a doctor and our  
15                   answers to that. So that's essentially the only real  
16                   change that has happened.

17       Q.    So you have not added any of the additional adverse  
18             reactions that might be listed in updated Instructions  
19             For Use?

20                   MR. WALKER: Object to form.

21                   THE WITNESS: In fact, what we have done,  
22                   in fact, what we have done is that we have now put  
23                   things into better perspective.

24                   So, for example, we would just quote, you

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1 know, that patient had a, let's say, you know, a groin  
2 pain of ten percent because that was quoted in the  
3 literature, but as time has revolved, then we would  
4 say that, yeah, that is a transient groin pain of ten  
5 percent, but over a few months, it's gone, it's no  
6 longer there.

7 So as we realized and we have realized from  
8 own clinical trials what the percentages are, and, if  
9 anything, we've dropped the percentages down because  
10 now we realize that the complication rate is even  
11 lesser, maybe because we are gaining more experience.  
12 So we're getting lesser.

13 So we are putting things in perspective  
14 where we just don't state the complication but now we  
15 also state the percentage since we have data now  
16 available in our own practice.

17 BY MS. FLAHERTY:

18 Q. But you're aware that at least as of 2015, Ethicon's  
19 Instructions For Use for the TVT state, for example,  
20 that dyspareunia or pain with intercourse may not  
21 resolve, and that's something new that they have  
22 stated that they did not originally state.

23 A. Actually, I would have to see where that is.

24 MR. WALKER: Object to the form.

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1 Is that a question pending or a statement?

2 I might have missed it.

3 MS. FLAHERTY: That's a question.

4 MR. WALKER: Okay.

5 THE WITNESS: Is there a particular area?

6 MS. FLAHERTY: Sure.

7 (Khandwala Exhibit No. 8 marked and  
8 attached.)

9 THE WITNESS: So which page is this on?

10 BY MS. FLAHERTY:

11 Q. I'm sorry. It ends in 8411. There's little numbers  
12 on the right-hand corner.

13 A. Which?

14 Q. Okay. So if you go to roughly the middle of the page,  
15 do you see where it says adverse reactions?

16 A. Uh-huh.

17 Q. It's probably about two-thirds of the way down, it  
18 says pain with intercourse?

19 A. Yes.

20 Q. It says some patients may not resolve.

21 A. Yes.

22 Q. Do you see that?

23 A. Yes.

24 Q. And so that is not information that you would provide

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1 to your patients?

2 A. Well, from most sling studies that have been  
3 published, dyspareunia improves. So the pain that  
4 patients have, may have, or dyspareunia that they may  
5 have improves.

6 And there are several theories for that.  
7 One is that patients may not have coital incontinence.  
8 That means they're not leaking during intercourse, so  
9 now they're not that tight and they can enjoy having  
10 sex that they're not incontinent anymore.

11 So the paper that I mentioned to you,  
12 Helena Zyczynski from Pittsburgh, she had a paper that  
13 shows that, in fact, sexual function improved. I have  
14 a paper in my report also that also shows that sexual  
15 function improves after this particular, after a sling  
16 is placed. So, if anything, the sexual dysfunction,  
17 sexual pain or dyspareunia would improve.

18 What I'm looking at this is it's stating  
19 that if a patient has dyspareunia, then a sling is not  
20 going to cause or take away the dyspareunia but it may  
21 just persist. So I would not go and tell my patients  
22 that if I did a sling on you, then you will have  
23 dyspareunia. And the likelihood of dyspareunia is  
24 extremely low, and, if anything, dyspareunia is cured

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1 by placement of a sling.

2 Q. Okay. But that's not what it says right here, is it?

3 That's your interpretation of it.

4 A. It says pain with intercourse which in some patients  
5 may not resolve. So it could be that if the patients  
6 have pain, it could be from the -- this could be from  
7 two factors. Number one, the surgical intervention,  
8 if there is pain it may persist. This is what it may  
9 be alluding to, or it may be saying that if the  
10 patient has preexisting pain with intercourse, then it  
11 may not resolve. It may continue. That's my  
12 interpretation.

13 However, I look at this, but what I really  
14 go by is the published clinical trials and the data  
15 which is out there which clearly shows beneficial  
16 effect of a sling on sexual function. And this is I  
17 think a paper by Jha, J-H-A, that I referred to in my  
18 general report.

19 Q. And if you go to the next bullet point down where it  
20 says neuromuscular problems, do you see that?

21 A. Yes.

22 Q. Then it says: Including acute and/or chronic pain in  
23 the groin, thigh, leg, pelvic, and/or abdominal area  
24 may occur.

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1 Did I read that correctly?

2 A. Yes.

3 Q. And so you, again, had talked about acute or transient  
4 pain, but the Instructions For Use that Ethicon has  
5 provided for the transobturator or the TVT-O device  
6 state right here that chronic pain may occur.

7 Is that something that you would discuss  
8 with your patients?

9 A. I would, again, go by literature.

10 First of all, the likelihood of abdominal  
11 pain happening with a transobturator approach is just  
12 not feasible to some extent because we are not really  
13 getting into the abdomen at all. The sling is going  
14 from the vagina into the groin and coming out. So, if  
15 anything, there may be some groin pain but not  
16 abdominal pain.

17 Unless they're mixing this, if I read this  
18 correctly this is a transobturator IFU, right?

19 Q. Yes.

20 A. Yeah. So, you know, so to me as a clinician, I look  
21 at this, and then I completely go by what the clinical  
22 information is and what is published.

23 And I do not see any published information  
24 where it shows abdominal pain as an outcome of a TVT-O

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1 procedure. Even if there is groin pain, you know, the  
2 articles I quoted by Ford and Tomaselli and Athenasiou  
3 and Serati, all these four authors independently have  
4 shown that groin pain over time disappears.

5 In my practice, so we go by what is  
6 published in the literature, my clinical experience  
7 where I have not seen this on an ongoing basis. So I  
8 will tell the patients that these are potential  
9 things. However, the likelihood of this ongoing is  
10 very low.

11 Our job as physicians is to put things in  
12 perspective to the patient. So here it is a statement  
13 which put things in perspective. That means what is  
14 the likelihood of this happening, what is the  
15 likelihood of this continuing, and that is based upon  
16 published literature and our own clinical guidelines.

17 And so published literature clearly shows  
18 that with the transobturator technique and the papers  
19 that I've mentioned, Serati, S-E-R-A-T-I, they showed  
20 that it was I believe ten percent at one week and it  
21 dropped down to like zero percent at one year. The  
22 second was Athenasiou, it showed the same thing, and,  
23 again, the Cochran reviews by Ford and Tommaselli. So  
24 clearly these are not long-term.

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1                   So when I look at the literature, what's  
2           published, and then when I look at my own clinical  
3           experience when I've done so many of these  
4           transobturator slings, never had a single patient with  
5           outstanding groin pain, and I'm not going to tell the  
6           patient that she's going to have long-term groin pain  
7           based upon literature, based upon evidence, and my  
8           opinion based upon all this data.

9       Q.   And you'd agree that doctors have different clinical  
10       experiences based on their skill set, their  
11       experiences, et cetera, and their patient population,  
12       is that fair?

13      A.   Yes.

14      Q.   And so not all doctors will have had the same clinical  
15       experience that you have had?

16      A.   Yes.

17                   MR. WALKER: Object to form.

18           BY MS. FLAHERTY:

19      Q.   And you're not suggesting that doctors should  
20       disregard information in Instructions For Use, are  
21       you? It's just a factor?

22      A.   It is just something. However, they should look at  
23       it, but they have to get directed by what is their  
24       experience and clinical data published.



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1                   So, yes, they may not have the experience  
2                   that I have because I exclusively just practice  
3                   urogynecology. However, they read the literature.  
4                   They go to the American Urogyn conference or American  
5                   Urology Association conference, and they hear what  
6                   doctors present. So then they put things in  
7                   perspective.

8                   What we really do when we do this  
9                   consultation visit is we just do not throw just names  
10                  at the patient that you will get this, this, or this.  
11                  We tell them what is the likelihood, and that is how  
12                  the patient can then balance risk versus benefits.

13                  So if I tell the patient that, yes, you  
14                  will have success and, yes, you will have groin pain,  
15                  well, that doesn't tell her a whole lot. If I tell  
16                  her that your success is going to be ninety-seven  
17                  percent, that's a ninety-seven percent chance that  
18                  you'll be cured of this disease state and you have  
19                  less than one percent chance of a complication. Well,  
20                  then she can put some weightage in the balance pans.

21                  So that's what we do when we consult  
22                  patients and tell them what is the actual information.  
23                  So this is giving them the true facts, and that's  
24                  what's based upon the data.

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1 Q. And would you agree that's why it's important to have  
2 this data in the Instructions For Use so that the  
3 doctors can take the totality of that information and  
4 have that discussion with patients so patients can  
5 make an informed decision?

6 MR. WALKER: Object to form.

7 THE WITNESS: Well, the Instructions For  
8 Use is just one document. I'm not a regulatory person  
9 as I told you, so I do not know what Ethicon puts in  
10 and what they need to put in. It is just one document  
11 that we look at, and we just don't keep reviewing this  
12 again.

13 Information For Use is really not a  
14 document that physicians stick by and memorize. What  
15 we really memorize is what is our clinical experience  
16 and what is published in the literature and how things  
17 evolve.

18 As we mentioned, yes, there's a learning  
19 concern, but then we also understand what is best in  
20 my hands. So in my hands, this particular  
21 single-incision thing works great, but in Doctor  
22 Smith's hands, it may be a TVT.

23 So ultimately, even what the FDA states is  
24 ask your doctor what is his or her experience and

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1 success, and that could be very different from one to  
2 the other based upon individual preferences.

3 Q. Okay. I'm going to just take a quick two minutes, but  
4 I think we might be done.

5 A. Okay.

6 (Off the record at 1:00 p.m.)

7 (Back on the record at 1:04 p.m.)

8 MS. FLAHERTY: Doctor, thank you very much  
9 for your time today. I don't have any further  
10 questions for you.

11 THE WITNESS: Thank you.

12 MR. WALKER: We're done. Thank you.

13

14 (Deposition concluded at 1:04 p.m.)

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2 COUNTY OF LIVINGSTON )

3 CERTIFICATE OF NOTARY PUBLIC

4 I certify that this transcript  
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7 taken on Friday, July 8, 2016.

8 I also certify that prior to  
9 taking this deposition, the witness was duly sworn by  
10 me to tell the truth.

11 I also certify that I am not a  
12 relative or employee of a party, or a relative or  
13 employee of an attorney for a party, have a contract  
14 with a party, or am financially interested in the  
15 action.

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Cheryl McDowell, CSR-2662, RPR

22 Notary Public, Livingston County

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24